XR-U881RDS/U882RDS

SERVICE MANUAL

AEP Model
UK Model
XR-U881RDS
Germany Model
XR-U882RDS

Photo : XR-U882RDS

Model Name Using Similar Mechanism	XR-7551
Tape Transport Mechanism Type	MG-55U-31

SPECIFICATIONS

Cassette player section

Tape track	4-track 2-channel stereo
Frequency response	30 – 20,000 Hz

Signal-to-noise ratio

Cassette type	Dolby B	Dolby C	Dolby NR off
TYPE II, IV	66 dB	76 dB	58 dB
TYPE I	63 dB	73 dB	55 dB

Wow and flutter	0.09% (WRMS) (XR-U881RDS) 0.1% (WRMS) (XR-U882RDS)

Tuner section

FM

Tuning range	87.5 – 108.0 MHz
Antenna terminal	External antenna connector
Intermediate frequency	10.7 MHz
Usable sensitivity	8 dBf (75 ohms)
Selectivity	75 dB at 400 kHz
Signal-to-noise ratio	65 dB (stereo), 70 dB (mono)
Harmonic distortion at 1 kHz	0.5% (stereo), 0.3% (mono)
Separation	35 dB at 1 kHz
Frequency response	30 – 15,000 Hz
Capture ratio	2 dB

MW/LW (XR-U881RDS)

Tuning range	MW: 531 – 1,602 kHz LW: 153 – 281 kHz

MW/SW (XR-U882RDS)

Tuning range	MW: 531 – 1,602kHz SW: 5,950 – 6,205kHz
Antenna terminal	External antenna connector
Intermediate frequency	450 kHz
Sensitivity	MW: 30μV LW: 50μV (XR-U881RDS) SW: 50μV (XR-U882RDS)

MICROFILM

General

Output lead	Power antenna relay control lead Power amplifier control lead
Tone controls	Bass ±10 dB at 100 Hz Treble ±10 dB at 10 kHz
Loudness	+10 dB at 100 Hz +6 dB at 10 kHz
Power requirements	12 V DC car battery (negative ground)
Dimensions	Approx. 178 × 50 × 160 mm (w/h/d), not incl. projecting parts and controls
Mounting dimensions	Approx. 182 × 53 × 143 mm (w/h/d), not incl. projecting parts and contnrols
Weight	Approx. 1.5 kg
Accessories supplied	Mounting hardware (1 set) UNILINK cable (1) Power input lead (1) Remote commander (1) R6 (size AA) battery (2) Carrying pouch (1) (XR-U882RDS)

Design and specifications subject to change without notice.

FM/MW/LW CASSETTE CAR STEREO

XR-U881RDS

FM/MW/SW CASSETTE CAR STEREO

XR-U882RDS

SONY®

MC-Service

Features

General

- **Full-logic feather touch system** for easy and smooth operation.
- **Large-and-wide-sized** LCD for displaying the operation modes clearly.
- Switchable **two color illumination (amber and green).** (page 7)
- Supplied with a **wireless remote commander.** (page 8)
- Provided with a **digital 12-hour clock.** (page 13)
- **Telephone-mute function for** decreasing the volume automatically with a telephone call.
- **Detachable-front panel** enables you to take the front panel away with you when you leave your car. (page 12)
- **Caution alarm** will be activated if you turn off the ignition key without removing the front panel from the unit.

Tuner section

- **SSIR (Sony Super Interference Rejection) PLL synthesizer tuner.**
- Provided with a **FM diversity reception** system for a better radio reception. (page 11)
- Up to 40 stations can be preset. 20 stations for FM, 10 stations each for MW and LW or SW. (page 27)
- **BTM (Best Tuning Memory) function** automatically selects and stores the stations with strong signals on the preset buttons in order of frequency. (page 25)
- The information services of **FM RDS stations** can be received. (page 29)

Cassette deck section

- **Super-laminated head** for clear treble sound.
- **Auto-reverse function** for listening to both sides of a cassette continuously.
- **Auto-metal selection** for detecting metal and CrO$_2$ tapes and automatically adjusting the deck to each tape type. (page 16)
- **Dolby B and C NR* system** reduces tape hiss noises during the tape playback. (page 16)
- **AMS (Automatic Music Sensor)** for automatically locating the beginning of a selection during the tape playback. (page 17)
- **Intro scan function** for playing the first 10 seconds of each track. (page 19)
- **Repeat play function** for listening to a currently playing track repeatedly. (page 19)
- **Blank skip function** for automatically skipping blank spaces during the tape playback. (page 20)
- **ATA (Automatic Tuner Activation)** for automatically turning on the tuner during the fast-forwarding or rewinding of a tape. (page 20)

CD changer control section

(when the optional Sony CD changers are connected)

- Several CD changers can be connected and controlled by the use of the Sony source selector (sold separately) with the unit.
- **Direct disc selection** for selecting discs directly with the numerical keys. (page 38)
- **Intro scan function** for playing the first 10 seconds of each track of every disc. (page 42)
- **Repeat play function** for playing a track, a disc, or a changer repeatedly. (page 41)
- **Shuffle play function** for playing tracks in random order. (page 40)
- **Manual search function** for locating a desired point in a track. (page 39)
- **Custom file function** for displaying the title of each disc and setting a play/skip mode on each track. (page 43)

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* Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "Dolby" and the double-D symbol DD are trademarks of Dolby Laboratories Licensing Corporation.

TABLE OF CONTENTS

Section *Title* *page*

1. GENERAL

Location and Function of controls 3
Connections 4
Installation 6
Detaching and Attaching the Front panel 7
Setting the Clock 7
Listening to the Tape Playback 7
Locating a Desired Track 8
Playing in Other Modes 8
Searching for the Stations Automatically 9
Tuning in by Adjusting the Frequency 10
Memorizing the Stations Automatically 10
Memorizing Only Desired Stations 10
Receiving Stations Stored in Memory 11
Overview of the RDS Function 11
Station Name Display 11
Automatic Re-tuning 12
Receiving Traffic Information 12
Listening to the CD Play 13
Locating a Desired Disc, Track, or Part of a Track 13
Playing in Other Modes 14
Overview of the Custom File Function 14
Displaying the Title of Each Disc 15
Playing Only Desired Tracks on a Disc 16
Editing a Custom File 16
Maintenance 17

2. DISASSEMBLY

2-1. Cover 18
2-2. Front Panel Assy 18
2-3. Mechanism Deck Block 19
2-4. Power Board 19

3. DIAGRAMS

3-1. Pin Descriptions 20
3-2. Circuit Boards Location 25
3-3. Printed Wiring Boards —ARI, RDS Section— 26
3-4. Printed Wiring Boards —MAIN, DIVER, RST Section— 29
3-5. Schematic Diagram —MAIN (1/2), DIVER, ARI, RDS, RST Section— 33
3-6. Schematic Diagram —MAIN (1/2) Section— 37
3-7. Schematic Diagram —KEY Section— 39
3-8. Printed Wriring Board —KEY Section— 41
3-9. Printed Wiring Boards —MD, POWER Section— 43
3-10. Schematic Diagram —MD, POWER Section— 45
3-11. Semiconductor Lead Layout 49

4. EXPLODED VIEWS

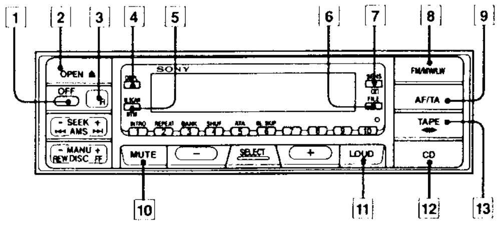
4-1. Chassis 53
4-2. Front Panel/Power Cord 54
4-3. Mechanism Deck Block (1) 55
4-4. Mechanism Deck Block (2) 56
4-5. Mechanism Deck Block (3) 57
5. ELECTRICAL PARTS LIST 58

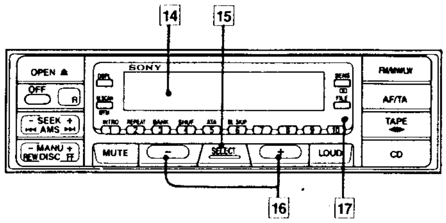
SECTION 1
GENERAL

This section is extracted from XR-U881RDS instruction manual.

Location and Function of Controls

Main Unit





Refer to the pages in ● for details.

1 **OFF button**
Press to turn off the unit.

2 **OPEN/⏏ (front panel open/eject) button** ⑫ ●

3 **Receptor for the remote commander**

4 **DSPL (display change/time set) button** ⑬ ● ● ㉑ ㉛ ● ● ●

5 **M.SCAN/BTM (memory scan/best tuning memory) button** ●

6 **FILE (custom-file) button** ● ● ● ●

7 **SENS/ DD (sensitivity/Dolby NR) button** ● ㉒

8 **FM/MW/LW (XR-U881RDS), FM/MW/SW (XR-U882RDS) (radio on/band select) button** ●

9 **AF/TA (alternative frequency/traffic information) button** ● ●

10 **MUTE button**
Press to mute the sound momentarily. Press again to restore the same volume level as before. This button will be also caceled in the following cases:
- when the + or OFF button is pressed.
- when ejecting a cassette by pressing the OPEN/⏏ button during tape playback.
- when the ignition key of your car has been turned off to the OFF position and more than 8 seconds have elapsed.

11 **LOUD (loudness) button**
Press to reinforce bass and treble especially when listening at a low volume level. To disengage the button, press it again.

12 **CD (disc play / CD changer select) button** ㊲ ●

13 **TAPE ◀‖▶ (playback / transport direction change) button** ● ⑮

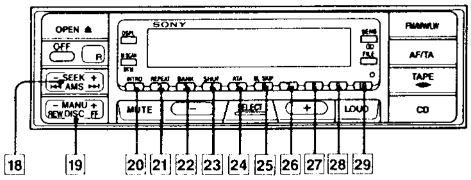
14 **Display window**

15 **SELECT (control mode select) button**
Press to select the desired control mode: BAS (bass), TRE (treble), BAL (balance), FAD (fader), or VOL (volume).

Display window	Control mode	Press (–)	Press (+)
BAS	Bass control	For less bass	For more bass
TRE	Treble control	For less treble	For more treble
BAL	Balance control	To decrease the right-speaker volume	To decrease the left-speaker volume
FAD	Fader control	To decrease the rear-speaker volume	To decrease the front-speaker volume
VOL	Volume control	For less volume	For more volume

16 **(–)(+) (volume/bass/treble/balance/fader control) button**
(–)(+) button normally functions as the volume control. To adjust other modes, press (–) or (+) within three seconds after selecting the desired mode with the SELECT button. The control mode automatically goes back to the volume control mode in three seconds.

17 **Reset button**
Press this button when you use this unit for the first time, when you have changed the car battery, or when the buttons of this unit do not function.



	During tape playback	During disc play	During radio reception
18	**AMS (automatic music sensor) button** ● ●		**SEEK (automatic tuning) button** ●
19	**FF/REW (fast-forward/ rewind) button** ⑮	**DISC/MANU (disc change/ manual search) button** ● ●	**MANU (manual tuning) button** ●
20	**INTRO (track cue play)** ● ●		
21	**REPEAT (repeat play) button** ⑲		
22	—	**BANK button** ●	
23	—	**SHUF (shuffle play) button** ●	
24	**ATA (automatic tuner activation) button** ●	—	**Preset buttons** ● ● ●
25	**BL.SKIP (blank skip) button** ●	—	
26	—	—	
27	—	—	
28	—	—	
29	—	—	

The buttons 20 — 29 function as direct disc selection buttons as well during disc play. (page 38)

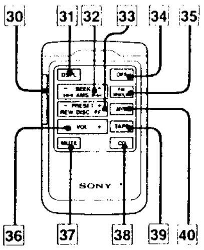
Changing the illumination color

Press INTRO (1) while pressing the SELECT button.

Muting a beep sound

Press BL.SKIP (6) while pressing the SELECT button. To obtain the beep sound again, press these buttons once more.

Remote Commander



Buttons of the same function as those on the main unit

31 **DSPL (display change) button** ● ● ● ● ● ● ● ●

	During tape playback	During disc play	During radio reception
32	**AMS (Automatic Music Sensor) button** ● ●		**SEEK (automatic tuning) button** ●

34 **OFF button**

35 **FM/MW/LW (XR-U881RDS), FM/MW/SW (XR-U882RDS) (radio on/band select) button** ●

37 **MUTE button**

38 **CD (disc play/CD changer select) button** ● ●

39 **TAPE (playback/transport direction change) button** ● ●

40 **AF/TA (alternative frequency/traffic information) button** ● ●
Use this button for the RDS station reception.

Different function buttons

30 **M.ILL (memory illumination) switch**
To illuminate the buttons on the remote commander, slide down this switch. The illumination goes off automatically after about 15 seconds.

	During tape playback	During disc play	During radio reception
33	**FF/REW (fast forward/rewind) button** ⑮	**DISC (disc change) button** ● ●	**PRESET –/+ (preset search) button** ●

You cannot do the manual search and manual tuning with the remote commander.

36 **VOL (volume) button**
This button adjusts only the volume level.

When the POWER SELECT switch is set to OFF, the unit cannot be operated with the remote commander unless one of the FM/MW/LW, TAPE, or CD buttons of the unit is pressed or a cassette is inserted to activate the unit first.

Connections

Caution

- This unit is designed for negative ground 12 V DC operation only.
- Before making connections, disconnect the ground terminal of the car battery to avoid short circuits.
- Connect the **red** power input lead only after all other leads are connected. And be sure to connect it to the positive 12 V power terminal which is energized when the ignition key is set to the accessory position.
- **Run all ground wires to a common ground point.**

Connexions

Précautions

- Cet appareil est conçu pour fonctionner exclusivement sur courant continu de 12 volts avec masse négative.
- Avant de procéder aux connexions, débrancher la borne de mise à la masse de la batterie du véhicule, pour éviter tout court-circuit.
- Brancher le fil d'entrée d'alimentation **rouge** uniquement après que tous les autres fils ont été connectés. En outre, veiller à le raccorder à la borne d'alimentation positive de 12 V qui est énergétisée quand la clé de contact est commutée sur la position accessoire.
- **Rassembler tous les fils de mise à la masse en un point de masse commun.**

Conexiones

Precauciones

- Esta unidad ha sido diseñada para funcionar solamente con 12 V CC y negativo a masa.
- Antes de realizar las conexiones, desconecte el terminal de masa de la batería del automóvil a fin de evitar cortocircuitos.
- Conecte el conductor de entrada de alimentación **rojo** solamente después de haber conectado todos los demás.
Cerciórese de conectarlo al terminal de alimentación de 12 V positivo. Este conductor deberá energizarse al poner la llave de encendido en la posición para accesorios.
- **Conecte todos los terminales de puesta a masa a un punto común.**

Aansluitingen

Waarschuwing

- Dit apparaat is uitsluitend geschikt voor gebruik op gelijkstroom van een 12 Volts auto-accu, negatief geaard.
- Alvorens te beginnen met het maken van aansluitingen, dient de aardklem van de auto-accu te worden losgemaakt. Dit om kortsluiting te voorkomen.
- Sluit de **rode** stroomdraad pas aan nadat alle andere aansluitingen zijn gemaakt. Zorg ervoor dat deze stroomdraad op de positieve 12 V accu-aansluiting wordt aangesloten. De draad komt dan onder spanning te staan wanneer de kontaktsleutel in de "ACC" stand wordt gezet.
- **Sluit alle aarddraden op een gemeenschappelijk aardpunt aan.**

When the Unit is Used in a Car with No Accessory Position on the Ignition Key

— POWER SELECT switch

The illumination on the front panel is factory-set to be turned on even when the unit is not being played. However, this setting may cause some car battery wear **if the unit is used in a car with no accessory position on the ignition key.**
To avoid this battery wear when using the unit in such a car, **set the POWER SELECT switch located at the bottom of the unit to the OFF position, then press the reset button.** The illumination is reset to stay off while the unit is not being played.

Note

The caution alarm for the front panel is not activated when the POWER SELECT switch is set to the OFF position

Quand l'appareil est utilisé dans une voiture dont la clé de contact ne possède pas de position accessoire

— Interrupteur POWER SELECT

L'éclairage du panneau avant est réglé en usine de façon à s'allumer même quand l'appareil ne fonctionne pas.
Cependant, ce réglage risque d'épuiser la batterie **si l'appareil est utilisé dans une voiture dont la clé de contact ne possède pas de position accessoire.**
Pour éviter ce désagrément, **commuter l'interrupteur POWER SELECT situé sur le fond de l'appareil sur OFF, puis appuyer sur la touche de réinitialisation.** L'éclairage est réinitialisé pour rester éteint quand l'appareil n'est pas utilisé.

Remarque

Quand l'interrupteur POWER SELECT est commuté sur OFF, l'avertisseur du panneau avant ne fonctionne pas.

Cuando vaya a emplear la unidad en un automívil con llave de encendido sin posición para accesorios

— Selector POWER SELECT

La iluminación del panel frontal ha sido ajustada en la fábrica para que esté activada incluso aunque la unidad no se encuentre en reproducción. Sin embargo, este ajuste puede provocar cierta descarga de la batería del automóvil **si emplea la unidad en un automóvil con llave de encendido sin posición para accesorios.** Para evitar esta descarga de la batería en un automóvil de este tipo, **ponga en OFF el selector POWER SELECT, situado en el panel inferior, y después presione el botón de reposición.** La iluminación permanecerá desactivada mientras la unidad no se encuentre en reproducción.

Nota

La alarma de aviso para el panel frontal no se activará cuando el selector POWER SELECT esté en OFF.

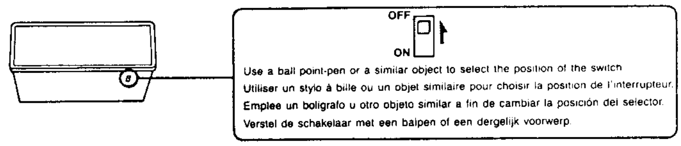
Als het kontaktslot van uw auto geen "ACC" stand heeft

— Gebruik van de stroomkeuzeschakelaar (POWER SELECT)

Het apparaat is in de fabriek zo ingesteld dat de verlichting van het voorpaneel altijd aan is, zelfs al is het apparaat zelf uitgeschakeld. Als het apparaat echter wordt gemonteerd in een auto waar het kontaktslot geen "ACC" stand heeft, kan dit leiden tot onnodige uitputting van de accu. Om dit te vermijden, **zet u de stroomkeuzeschakelaar (POWER SELECT) aan de onderkant van het apparaat in de "OFF" stand, en vervolgens drukt u de terugsteltoets in.** Met de keuzeschakelaar in deze stand zal de verlichting van het voorpaneel gedoofd zijn, zolang het apparaat niet is ingeschakeld.

Opmerking

Zolang de stroom-keuzeschakelaar (POWER SELECT) in de "OFF" stand staat, werkt de waarschuwingstoon op het voorpaneel van het apparaat niet



Use a ball point-pen or a similar object to select the position of the switch

Utiliser un stylo à bille ou un objet similaire pour choisir la position de l'interrupteur.

Emplee un bolígrafo u otro objeto similar a fin de cambiar la posición del selector.

Verstel de schakelaar met een balpen of een dergelijk voorwerp.

When a FM Diversity Antenna is Used — FM DIVERSITY switch

This unit can be connected with diversity antennas. If you use this unit with the diversity antennas, **set the FM DIVERSITY switch located at the top of the unit to the ON position to activate the diversity system.**

Quand une antenne à rayonnement zénithal réduit est utilisée — Interrupteur FM DIVERSITY

Cet appareil accepte le branchement d'antennes à rayonnement zénithal réduit. Pour pouvoir utiliser l'appareil avec ce type d'antenne, **commuter l'interrupteur FM DIVERSITY situé sur le dessus de l'appareil sur ON, afin d'activer le système de diversité.**

Cuando emplee antenas para recepción en diversidad

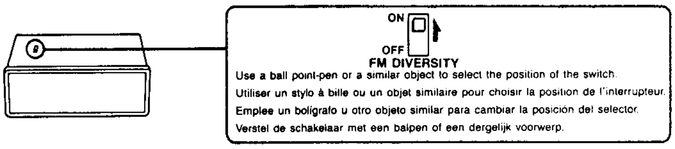
— Selector FM DIVERSITY

Esta unidad podrá conectarse a antenas para recepción diversidad. Si va a emplear esta unidad con las antenas para recepción en diversidad, **ponga el interruptor FM DIVERSITY situado en la parte inferior de la unidad en la posición ON a fin de activar el sistema de recepción en diversidad.**

Bij aansluiten van een meervoudige FM-antenne

— Gebruik van de FM DIVERSITY shakelaar

Dit apparaat is geschikt voor het meervoudig antennesysteem. Bij gebruik van een meervoudige antenne dient u de FM **DIVERSITY shcakelaar aan de bovenkant van het apparaat in de "ON" stand** te zetten.



Use a ball point-pen or a similar object to select the position of the switch.

Utiliser un stylo à bille ou un objet similaire pour choisir la position de l'interrupteur.

Emplee un bolígrafo u otro objeto similar para cambiar la posición del selector.

Verstel de schakelaar met een balpen of een dergelijk voorwerp.

When you do not use the FM diversity antennas
If you wish to connect a conventional rod antenna, be sure to connect it to the antenna connector of the unit marked "MAIN", and set the FM DIVERSITY switch to the OFF position. Never connect the antenna to the connector marked "SUB", otherwise if the FM DIVERSITY switch is set to the ON position, the radio signals may not be received properly.

Notes

- The radio reception will be disturbed by noise if the connection of the antennas was not made properly or the FM DIVERSITY switch was not set correctly.
- For details about the diversity antenna, refer to its instructions manual.

Quand on n'utilise pas d'antenne à rayonnement zénithal réduit
Pour brancher une antenne conventionnelle, veiller à raccorder celle-ci au connecteur d'antenne de l'appareil, marqué "MAIN" et commuter l'interrupteur DIVERSITY sur OFF. Ne jamais raccorder l'antenne au connecteur marqué "SUB", sinon, si l'interrupteur FM DIVERSITY est commuté sur ON, les signaux radiodiffusés seront mal reçus.

Remarques

- La réception radio risque d'être parasitée si le raccordement des antennes a été mal réalisé ou si l'interrupteur FM DIVERSITY n'est pas correctement réglé.
- Pour les détails sur les antennes à rayonnement zénithal réduit, se reporter à leur mode d'emploi.

Cuando no vaya a emplear antenas para recepción en diversidad de FM
Si desea conectar una antena telescópica convencional, cerciórese de conectarla a la toma de antena de la unidad marcada con "MAIN", y de poner el selector FM DIVERSITY en OFF. No conecte nunca esta antena a la toma marcada con "SUB", ya que si el selector FM DIVERSITY estuviese en ON, no se recibirían adecuadamente las señales de radiodifusión.

Notas

- La radiorrecepción se verá perturbada por ruido si la conexión de las antenas no se ha realizado adecuadamente, o si el selector FM DIVERSITY no se encuentra en la posición correcta.
- Con respecto a los detalles sobre las antenas para recepción en diversidad, consulte su manual de instrucciónes.

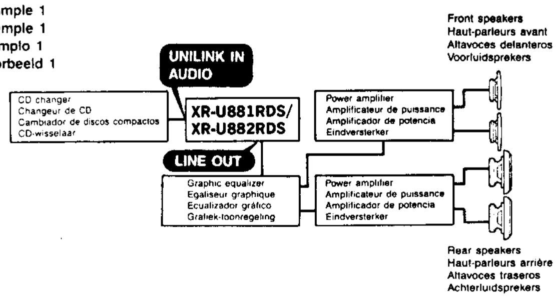
Bij aansluiten van een gewone antenne met slechts één aansluiting
Maakt u geen gebruik van het meervoudig FM-antennesysteem, maar een gewone sprietantenne met een enkele aansluiting, sluit deze dan aan op de "MAIN" ANT aansluiting, en zet de FM DIVERSITY schakelaar in de "OFF" stand.
Sluit een gewone sprietantenne niet aan op de "SUB" aansluiting, anders kan er geen sprake zijn van goede radio-ontvangst, als de FM DIVERSITY schakelaar in de "ON" stand staat

Opmerkingen

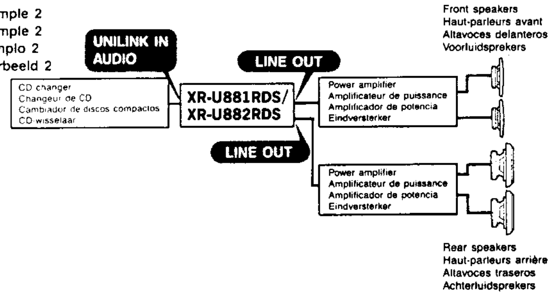
- Er kan storing in de radio-ontvangst optreden als de antenne niet op de juiste wijze is aangesloten of wanneer de FM DIVERSITY schakelaar niet in de juiste stand staat.
- Zie voor nadere bijzonderheden de gebruiksaanwijzing van de meervoudige antenne

Connection Diagram / Schéma de connexion / Diagrama de conexión / Aansluitschema's

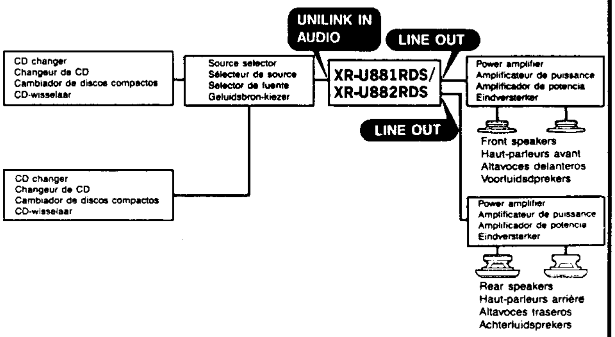
Example 1
Exemple 1
Ejemplo 1
Voorbeeld 1


Front speakers
Haut-parleurs avant
Altavoces delanteros
Voorluidsprekers
UNILINK IN AUDIO
CD changer
Changeur de CD
Cambiador de discos compactos
CD-wisselaar
XR-U881RDS/
XR-U882RDS
Power amplifier
Amplificateur de puissance
Amplificador de potencia
Eindversterker
LINE OUT
Graphic equalizer
Egaliseur graphique
Ecualizador gráfico
Grafiek-toonregeling
Power amplifier
Amplificateur de puissance
Amplificador de potencia
Eindversterker
Rear speakers
Haut-parleurs arrière
Altavoces traseros
Achterluidsprekers

Example 2
Exemple 2
Ejemplo 2
Voorbeeld 2


Front speakers
Haut-parleurs avant
Altavoces delanteros
Voorluidsprekers
UNILINK IN AUDIO
LINE OUT
CD changer
Changeur de CD
Cambiador de discos compactos
CD-wisselaar
XR-U881RDS/
XR-U882RDS
Power amplifier
Amplificateur de puissance
Amplificador de potencia
Eindversterker
LINE OUT
Power amplifier
Amplificateur de puissance
Amplificador de potencia
Eindversterker
Rear speakers
Haut-parleurs arrière
Altavoces traseros
Achterluidsprekers

Example 3
Exemple 3
Ejemplo 3
Voorbeeld 3


UNILINK IN AUDIO
LINE OUT
CD changer
Changeur de CD
Cambiador de discos compactos
CD-wisselaar
Source selector
Sélecteur de source
Selector de fuente
Geluidsbron-kiezer
XR-U881RDS/
XR-U882RDS
Power amplifier
Amplificateur de puissance
Amplificador de potencia
Eindversterker
LINE OUT
Front speakers
Haut-parleurs avant
Altavoces delanteros
Voorluidsdprekers
CD changer
Changeur de CD
Cambiador de discos compactos
CD-wisselaar
Power amplifier
Amplificateur de puissance
Amplificador de potencia
Eindversterker
Rear speakers
Haut-parleurs arrière
Altavoces traseros
Achterluidsprekers

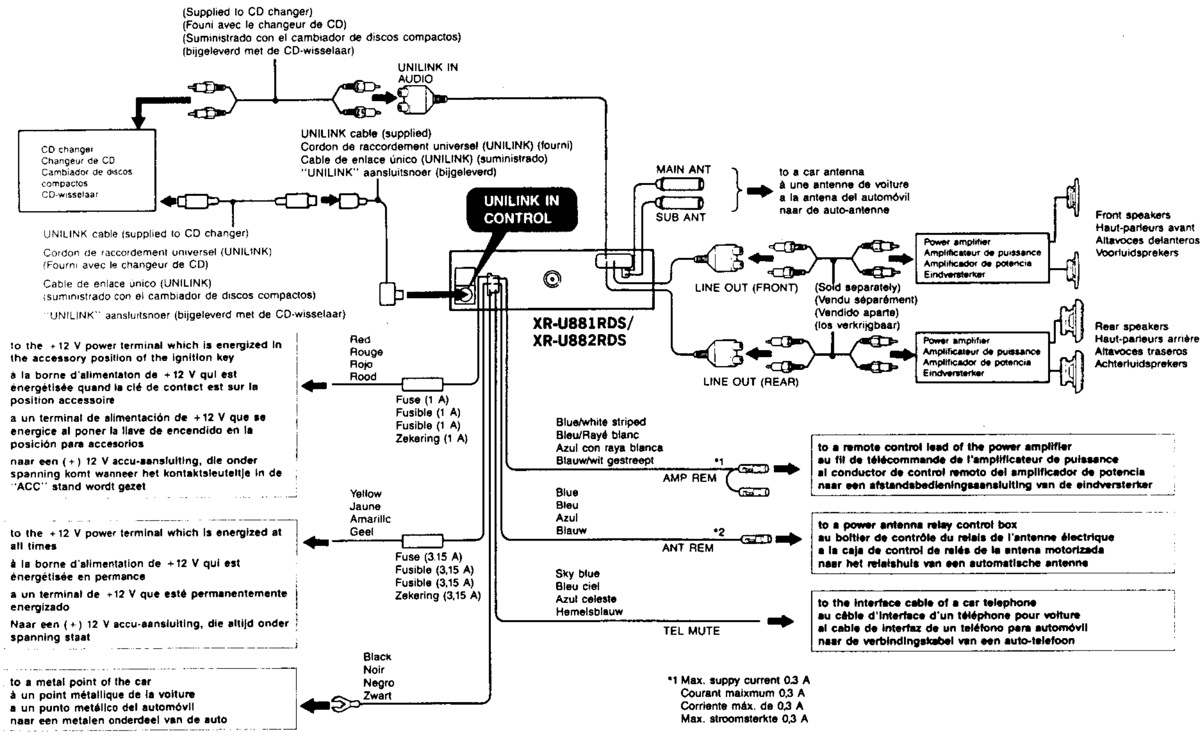
If you connect two or more CD changers, the source selector XA-U20 or XA-U40 (sold separately) is required.

Si deux changeurs de CD ou plus sont utilisés, un sélecteur de source XA-U20 ou XA-U40, (vendu séparément), est requis.

Para conectar dos o más cambiadores de discos compactos, necesitará el selector de fuente XA-U20 o XA-U40 (vendido aparte).

Voor het aansluiten van twee of meer CD-wisselaars is de XA-U20 of XA-U40 geluidsbron-kiezer (los verkrijgbaar) vereist.

Connections of Example 2 / Connexions de l'exemple 2 / Conexiones para el ejemplo 2 / Volledige aansluitingen bij voorbeeld 2


(Supplied to CD changer)
(Founi avec le changeur de CD)
(Suministrado con el cambiador de discos compactos)
(bijgeleverd met de CD-wisselaar)
UNILINK IN AUDIO
CD changer
Changeur de CD
Cambiador de discos compactos
CD-wisselaar
UNILINK cable (supplied)
Cordon de raccordement universel (UNILINK) (fourni)
Cable de enlace único (UNILINK) (suministrado)
"UNILINK" aansluitsnoer (bijgeleverd)
UNILINK IN CONTROL
UNILINK cable (supplied to CD changer)
Cordon de raccordement universel (UNILINK) (Fourni avec le changeur de CD)
Cable de enlace único (UNILINK) (suministrado con el cambiador de discos compactos)
"UNILINK" aansluitsnoer (bijgeleverd met de CD-wisselaar)
MAIN ANT
SUB ANT
to a car antenna
à une antenne de voiture
a la antena del automóvil
naar de auto-antenne
Front speakers
Haut-parleurs avant
Altavoces delanteros
Voorluidsprekers
Power amplifier
Amplificateur de puissance
Amplificador de potencia
Eindversterker
LINE OUT (FRONT)
(Sold separately)
(Vendu séparément)
(Vendido aparte)
(los verkrijgbaar)
XR-U881RDS/
XR-U882RDS
Rear speakers
Haut-parleurs arrière
Altavoces traseros
Achterluidsprekers
Power amplifier
Amplificateur de puissance
Amplificador de potencia
Eindversterker
LINE OUT (REAR)
to the +12 V power terminal which is energized in the accessory position of the ignition key
à la borne d'alimentaton de +12 V qui est énergétisée quand la clé de contact est sur la position accessoire
a un terminal de alimentación de +12 V que se energice al poner la llave de encendido en la posición para accesorios
naar een (+) 12 V accu-aansluiting, die onder spanning komt wanneer het kontaktsleuteltje in de "ACC" stand wordt gezet
Red
Rouge
Rojo
Rood
Fuse (1 A)
Fusible (1 A)
Fusible (1 A)
Zekering (1 A)
Blue/white striped
Bleu/Rayé blanc
Azul con raya blanca
Blauw/wit gestreept
*1
AMP REM
to a remote control lead of the power amplifier
au fil de télécommande de l'amplificateur de puissance
al conductor de control remoto del amplificador de potencia
naar een afstandsbedieningsaansluiting van de eindversterker
to the +12 V power terminal which is energized at all times
à la borne d'alimentation de +12 V qui est énergétisée en permance
a un terminal de +12 V que esté permanentemente energizado
Naar een (+) 12 V accu-aansluiting, die altijd onder spanning staat
Yellow
Jaune
Amarillo
Geel
Fuse (3.15 A)
Fusible (3,15 A)
Fusible (3,15 A)
Zekering (3,15 A)
Blue
Bleu
Azul
Blauw
*2
ANT REM
to a power antenna relay control box
au boîtier de contrôle du relais de l'antenne électrique
a la caja de control de relés de la antena motorizada
naar het relaishuis van een automatische antenne
Sky blue
Bleu ciel
Azul celeste
Hemelsblauw
TEL MUTE
to the interface cable of a car telephone
au câble d'interface d'un téléphone pour voiture
al cable de interfaz de un teléfono para automóvil
naar de verbindingskabel van een auto-telefoon
Black
Noir
Negro
Zwart
to a metal point of the car
à un point métallique de la voiture
a un punto metálico del automóvil
naar een metalen onderdeel van de auto

*1 Max. suppy current 0.3 A
Courant maixmum 0,3 A
Corriente máx. de 0,3 A
Max. stroomsterkte 0,3 A

*2 Max. supply current 0.1 A
Courant maximum 0,1 A
Corriente máx. de 0,1 A
Max. stroomsterkte 0,1 A

Press the reset button on the front panel after completing the connections.

Notes on the control leads

- The power antenna control lead (blue) supplies +12 V DC when you turn on the tuner or when you activate the ATA (Automatic Tuner Activation) function.
- A power antenna without relay box cannot be used with this unit. For details about the power antenna, refer to its instructions manual.

Les connexions achevées, appuyer sur la touche de réinitialisation sur le panneau avant.

Remarques sur les fils de contrôle

- Le fil de contrôle de l'antenne électrique (bleu) fournit un courant continu de 12 volts quand le tuner est mis sous tension, ou quand la fonction ATA (activation automatique du tuner) est mise en service.
- Une antenne électrique sans boîtier de relais ne peut être utilisée avec cet appareil. Pour les détails sur l'antenne électrique, se reporter à son mode d'emploi.

Después de haber finalizado las conexiones, presione el botón de reposición del panel frontal.

Notas sobre los conductores de control

- El conductor de la antena motorizada (azul) suministrará +12 V CC cuando conecte la alimentación del sintonizador o cuando active la función de activación automática del sintonizador (ATA).
- Con esta unidad no podrá emplearse una antena motorizada desprovista de caja de relés. Con respecto a los detalles sobre la antena motorizada, consulte su manual de instrucciones.

Druk na het maken van alle aansluitingen op de terugsteltoets op het voorpaneel van dit apparaat.

Opmerkingen betreffende de bedieningsaansluitingen

- Het aansluitsnoer voor de automatische antenne (blauw) levert +12 V gelijkstroom als de tuner wordt ingeschakeld of als de ATA automatische tuner-inschakelfunktie in werking treedt.
- Met dit apparaat is het niet mogelijk een automatische antenne zonder relaishuis te gebruiken. Zie de gebruiksaanwijzing van de automatische antenne voor nadere bijzonderheden over de antenne.

Installation

Precautions

- Choose the mounting location carefully so that the unit will not interfere with the normal driving functions of the driver.
- Avoid installing the unit where it would be subject to high temperatures, such as from direct sunlight or from hot air from the heater, or where it would be subject to dust, dirt, or excessive vibration.
- Use only the supplied mounting hardware for a safe and secure installation.

Mounting angle adjustment
Adjust the mounting angle to less than 20°.

Installation

Précautions

- Choisir soigneusement l'emplacement du montage, de manière que l'appareil ne gêne nullement les mouvements du conducteur.
- Eviter d'installer l'appareil là où il serait soumis à des températures élevées, comme en plein soleil ou à proximité d'une bouche d'air chaud, ni ou il serait soumis à de la poussière, saleté ou vibrations violentes.
- Pour garantir un montage sûr, n'utiliser que le matériel fourni.

Réglage de l'angle de montage
Ajuster l'inclinaison à un angle inférieur à 20°.

Instalación

Precauciones

- Elija cuidadosamente el lugar de montaje de forma que la unidad no interfiera las funciones normales de conducción.
- Evite instalar la unidad donde pueda quedar sometida a altas temperaturas, como a la luz solar directa o al aire caliente de calefacción, o a polvo, suciedad, o vibraciones excesivas.
- Para realizar una instalación segura y firme, emplee solamente la ferretería de montaje suministrada.

Ajuste del ángulo de montaje
Ajuste el ángulo de montaje a menos de 20°.

Montage

Voorzorgsmaatregelen

- Kies de plaats voor inbouw zorgvuldig en houd er rekening mee dat het apparaat de bestuurder van de auto vooral niet in de weg mag zitten.
- Monteer het apparaat niet op plaatsen waar het blootgesteld wordt aan hoge temperaturen zoals van direkt zonlicht of de warme luchtstroom van de auto-verwarming. Zorg dat het niet blootstaat aan sterke trillingen of in kontakt komt met veel stof of vuil.
- Gebruik voor het veilig en stevig monteren van het apparaat uitsluitend de bijgeleverde montage-onderdelen.

Inbouwhoek
Monteer het apparaat in een stand die niet meer dan 20° afwijkt van het horizontale vlak.

Mounting Example

Installation in the dashboard

Exemple de montage

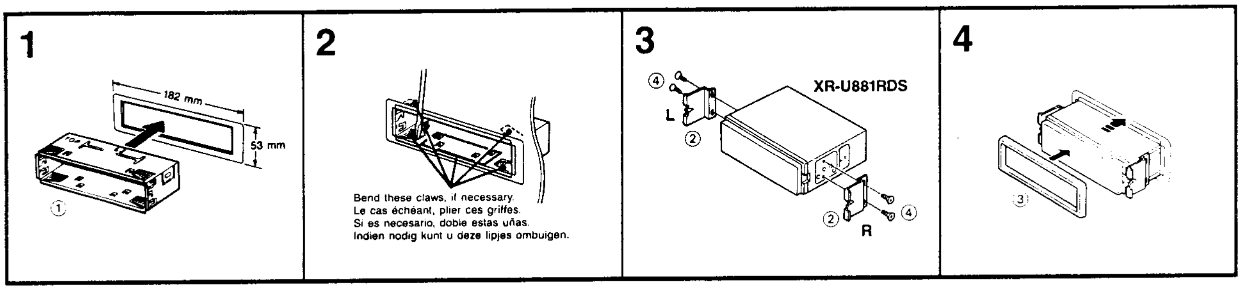
Encastrement dans le tableau de bord

Ejemplo de montaje

Instalación en el salpicadero

Montagevoorbeeld

Inbouw in het dashboard



Bend these claws, if necessary.
Le cas échéant, plier ces griffes.
Si es necesario, doble estas uñas.
Indien nodig kunt u deze lipjes ombuigen.

To Support the Unit

Choose the way A or B.

Pour installer l'appareil

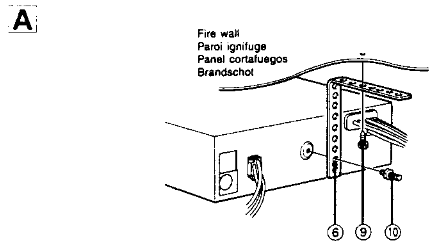
Choisir la méthode A ou B.

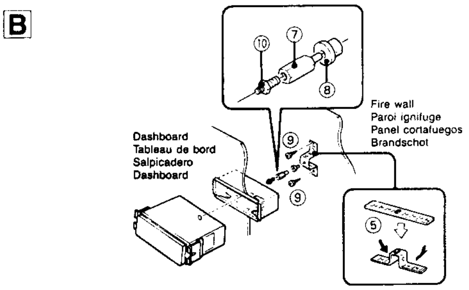
Sujeción de la unidad

Elija la forma A o B.

Ondersteunen van het apparaat

Kies voor methode A of B.





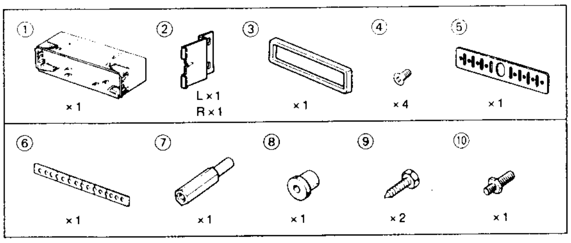
Supplied Mounting Hardware
Matériel de montage fourni
Ferretería de montaje suministrada
Bijgeleverde montage-onderdelen

The letters in the list are keyed to those in the instructions.

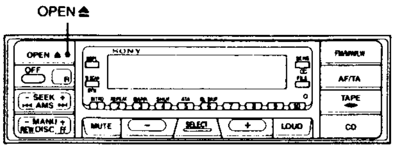
Les lettres de la liste correspondent à celles mentionnées dans les procédures.

Las letras de la lista corresponden a las de las instrucciones.

De nummers in de afbeelding verwijzen naar die in de montage-aanwijzingen



Detaching and Attaching the Front Panel

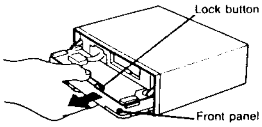


The front panel of this unit can be detached in order to prevent the unit from being stolen.

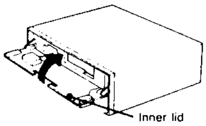
Detaching the Front Panel

1 **Press the OPEN/≜ button and open up the front panel.**

2 **Pull out the panel while pressing the lock button located on the back side of the panel.**



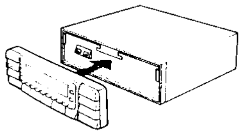
3 **After detaching the front panel, close the inner lid.** It automatically closes when you lift it lightly.



Be sure not to drop the front panel when detaching it from the unit.

Attaching the Front Panel

Push the front panel against the unit, with its inner lid closed, until it clicks.

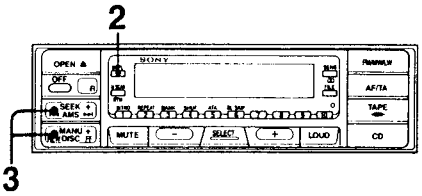


Caution alarm
If you turn your ignition key to the OFF position without removing the front panel, the caution alarm will be activated and a beep tone will be heard for a few seconds. (Only when the POWER SELECT switch is set to the ON position)

Notes

- The front panel and the inner panel close automatically, after about 30 seconds if it is left open. When the front panel is opened, none of the function buttons except the OPEN/≜ button will function.
- Make sure that the front panel is right way up when attaching it to the unit as it cannot be attached upside down.
- Do not press the front panel hard against the unit when attaching it to the unit It can be easily attached by pressing it lightly against the unit.
- When you carry the front panel with you, put it in the supplied carrying pouch
- If you keep the OPEN/≜ button pressed for more than two seconds, the front panel will open without ejecting the cassette

Setting the Clock

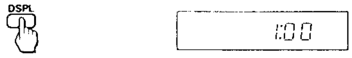


The clock has a 12-hour digital indication.

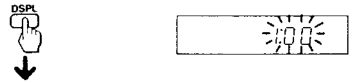
For example, set it to 10:08.

1 **Turn the ignition key to the ON position.**

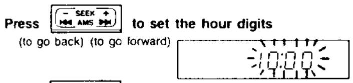
2 **Press the DSPL button if the clock indication does not come on.**



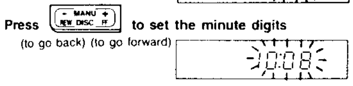
3 **Press the DSPL button for more than 2 seconds.**



While holding down the DSPL button,

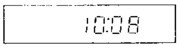


Press [SEEK / AMS] to set the hour digits
(to go back) (to go forward)



Press [MANU / DISC] to set the minute digits
(to go back) (to go forward)

4 **The clock starts activating when you take your finger off the DSPL button.**

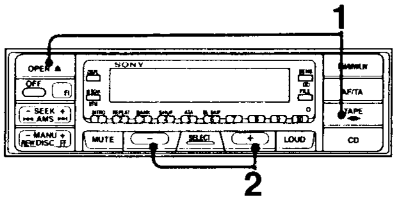


Notes

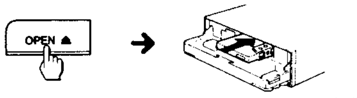
- You cannot set the clock with the remote commander.
- If the POWER SELECT switch of the unit is set to the OFF position, the clock cannot be set unless the power is turned on. Set the clock after you turn on the radio, start the CD play, or play back a tape.

Cassette Deck Operation

Listening to the Tape Playback

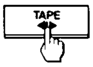


1 **Insert a cassette into the cassette slot.**



When a cassette is inserted, the front panel automatically closes and the playback starts.

If a cassette is already inserted

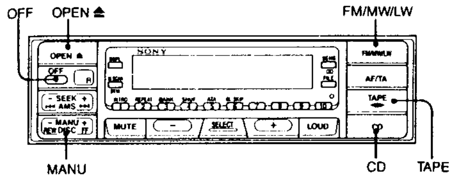


The ▭ indication appears on the display window if a cassette is inserted.

2 **Adjust the volume with (–) or (+).**

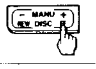
Getting the clock indication during a tape playback

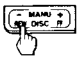
Press again to return to the previous indication

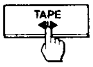


Other Operations

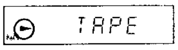
To fast-forward	→
To rewind	→
To listen to the reverse side of a cassette	→



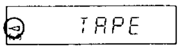




Tape transport direction indication



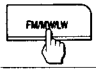
The side facing up is being played

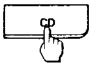


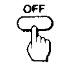
The side facing down is being played.

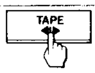
Stopping the Tape Playback

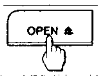
To stop the tape and listen to the radio	→
To stop the tape and listen to the CD	→
To stop the tape and turn the unit off	→
To listen to the tape again	→
To eject the tape	→





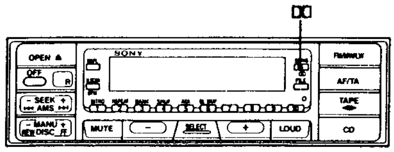






Notes on the OPEN/≜ button

- If you leave a cassette in the cassette slot for more than 30 seconds after pressing the OPEN/≜ button, the unit will automatically take in the cassette and close the front panel.
- When the front panel is opened, none of the control buttons except the OPEN/≜ button will function. You cannot operate the remote commander either.
- If you wish to close the front panel without inserting a cassette to the unit, lift up the front panel gently with your finger and it will close automatically.

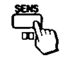

OPEN
OFF
SEEK
AMS
MANU
DISC
SONY
MUTE
SELECT
LOUD
AF/TA
TAPE
CD

Auto-metal Selection Function

This unit has an auto-metal selection function in which the unit automatically detetcts normal, CrO2 and metal tapes. The deck will be adjusted just by inserting a cassette into the slot. When you insert either metal or CrO2 cassette, the "METAL" indication will come on the display window for a few seconds.

Listening to a Tape Recorded in the Dolby-NR System

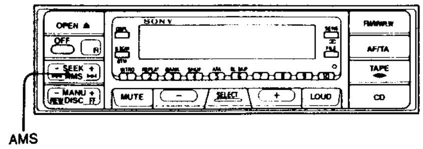
This unit adapts to the tapes recorded in the Dolby B and Dolby C NR system.



→ Dolby B NR → Dolby C NR → Dolby NR off

The Dolby noise reduction system reduces the hiss noises which occur during the tape playback in the treble and bass areas.
This system emphasizes the treble area during the recording and returns it to the original level at the playback.
Therefore, when you listen to the tapes which are recorded in the Dolby NR system, be sure to use the Dolby NR system during a playback as well.

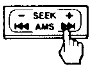
Locating a Desired Track —*AMS Function*



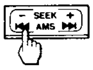
The AMS (Automatic Music Sensor) enables you to locate the beginning of up to 9 tracks.

During playback, press the AMS button for the same number of times as the number of tracks you wish to skip.

To locate the beginning of the tracks ahead →



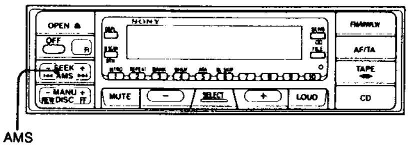
To locate the beginning of the previous tracks →



Be sure to include the current track in the number of the tracks you wish to skip.

The AMS may not function properly and the track starting positions may not be located in the following cases:
- Tapes which contain noises between the tracks are used.
- Tapes which contain less than 4 second blank spaces in between the tracks are used.
- When you press the AMS button immediately before or after the track which you wish to locate.

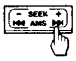
The unit may consider the following as the blank spaces between tracks and start playback:
- Long silent music sections on a track
- Quiet sections or a continuous low volume sound on a track.
- Tracks which contain a gradual increase and decrease of the sound volume.



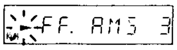
Examples of Locating the Beginning of a Track

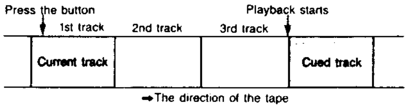
Cueing the track after skipping three tracks

Press



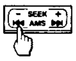
three times.



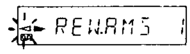

Press the button
Playback starts
1st track
2nd track
3rd track
Current track
Cued track
→The direction of the tape

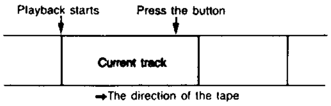
Cueing the beginning of the current track

Press

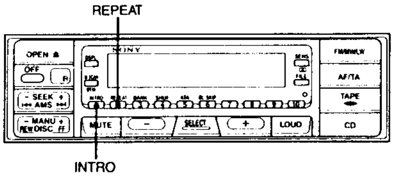


once.




Playback starts
Press the button
Current track
→The direction of the tape

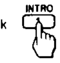
Playing in Other Modes

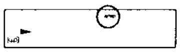

REPEAT
INTRO

Searching for a Desired Track by Listening to the First 10 Seconds of Each Track

—*Intro Scan Function*

During playback

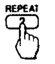


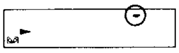


The first 10 seconds of all the tracks will be played in order from the next track.
When you find the track of your choice, press the button again.
The deck will go back to the normal mode.

Note
The intro scan function will be canceled if you turn off the unit by pressing the OFF button or turning the ignition key to the OFF position and leaving it for more than 8 seconds. However, the blank skip and ATA function will not be canceled unless each button is pressed once again.

Listening to the Currently Playing Track Repeatedly —*Repeat Play Function*

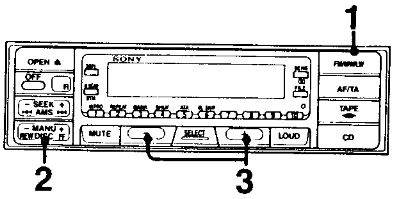




When the track is over, it will return to the beginning and will be repeated again. To cancel this mode, press the button again.

Tuning in by Adjusting the Frequency

—Manual Tuning



Use the Manual Tuning if you know the frequency of the desired station.

1 **Select the desired band from FM1, FM2, MW and LW.**
The band changes in the following order:
FM1 ➡FM2 ➡MW ➡ LW.

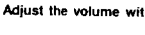
2 **Press the – MANU + button.**

– MANU +
NEW DISC

To search the lower frequencies　To search the higher frequencies

If you keep it pressed, the frequency changes rapidly.

3 **Adjust the volume with ⊂–⊃ or ⊂+⊃ .**

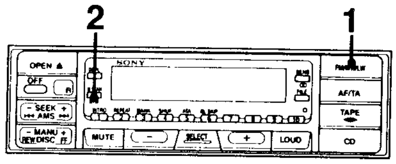


Note
You cannot use the Manual Tuning with the remote commander.

PREVENTING ACCIDENTS!
While you are driving, the use of the Automatic Tuning and the BTM function is recommended in favor of the Manual Tuning.

Memorizing the Stations Automatically

—BTM (Best Tuning Memory) Function



Best receiving stations are automatically searched and memorized on each band (FM1, FM2, MW and LW). Up to 10 stations on each band can be stored on the preset buttons 1 to 10 in the order of frequency.

1 **Select the desired band from FM1, FM2, MW and LW.**
The band changes in the following order:
FM1 ➡ FM2 ➡ MW ➡ LW.

2 **Keep the BTM button pressed for more than 2 seconds.**

The receivable frequencies of FM1 and FM2 are the same
Therefore, 20 stations can be memorized on FM.

Checking in Order, All the Stations Stored in the Memory—Memory Scan Function

Press lightly

The tuner will receive in order, all the stations stored in the memory for 5 seconds each.

To cancel
Press the M. SCAN button lightly once more. The memory scan will be canceled and you will be able to listen to the station currently being received.

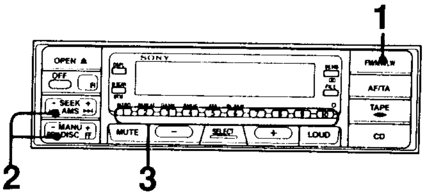
Note
There may be cases where even the stations which are stored in memory cannot be received due to weak signals in the vicinity of your car.

The BTM function — how this function operates

It starts searching stations from the lowest frequency of the currently tuned in band. When a station is located, it will be stored in the memory on the preset button whose number is indicated on the display window. If there is no preset number indicated, it will be stored in the memory on the preset button number 1 onward. It continues to store the stations in the memory until all the preset buttons are occupied.
For example, if the FM1 band was selected, it will continue until the preset button 10 on the FM2 band is occupied.
When all the memory preset buttons are occupied with the memories before the highest receivable frequency is searched, the unit will start searching for higher frequencies from where it was left off. This is to check if there are any more stations with better reception than the ones already stored in the memory.
If a station with better reception is found, the unit will store it in the memory in place of a station with an inferior reception.
Lastly, it rearranges all the stations in the order of frequency from the lowest and stores them in the memory. The whole operation is now completed. The stations with better reception are stored in the memory on the preset buttons in the order of frequency.

Notes
- There may be a situation where there are not enough receivable stations due to the lack of stations in the vicinity or weak broadcasting signals. In such cases, the BTM operation may stop without all the buttons being stored with a memory.
- If you start the BTM operation from the FM1 band, it will continue to store stations in memory to the FM2 band. Care must be taken if you wish to keep the stored stations on the FM 2 band.
- If you start the BTM operation from the FM 2 band, it will stop when all the memories on the FM 2 band are occupied. It will not continue to the FM 1 band.

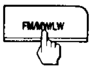
Memorizing Only Desired Stations



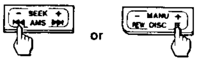
Up to 10 stations on each band (FM1, FM2, MW, and LW) can be stored in the memory in order of your choice (a total of 40 stations).

For example, store a station on the preset button 1.

1 **Select a desired band from FM1, FM2, MW and LW.**
The band changes in the following order:
FM1 ➡ FM2 ➡ MW ➡ LW.



2 **Tune in the station which you wish to store in the memory. (page 21 or 24.)**



3 **Keep the preset button pressed for about 2 seconds until the "MEM" indication comes on the display window.**

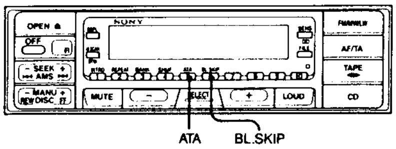
INTRO
FM 1
1
87.90

The number of the preset button of which you are pressing now comes on the display window. When the "MEM" indication comes on, the station is stored in the memory and the operation is now complete. The "MEM" indication goes off after a while.

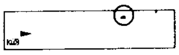
Repeat the same procedure to store other stations.

Only one station per band (FM1, FM2, MW and LW) can be stored in the memory on each preset button
If you try to store another station on the same preset button, the previously stored station will be erased.

If the station to be memorized is a RDS station
If the unit is tuned to a FM band and a station to be memorized happens to be a RDS station transmitting the AF data, the unit will memorize the AF data as well. (See "Network Stations Memory" page 33.)



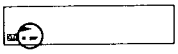
Turning on the Radio while the Tape is Being Fast-wound—ATA Function



If you press either FF or REW during the tape playback, the radio will come on automatically. When the tape playback starts, the radio will be turned off automatically. To cancel the mode, press the button again.

Skipping Blank Spaces of the Tape Automatically during Tape Playback

—Blank Skip Function

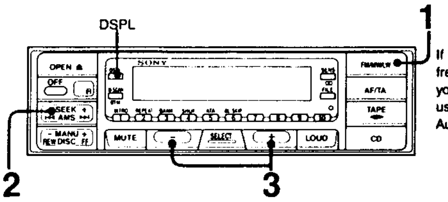


If there is a blank space longer than 8 seconds on a tape, the unit automatically fast forwards the tape to the next track and the playback will start. To cancel the mode, press the button again.

Getting a radio frequency indication on the display window while the radio is turned on using the ATA function
Press the DSPL button several times. The frequency of the last radio program received or the name of the last station received will be indicated on the display window for a few seconds.

Searching for the Stations Automatically

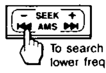
—Automatic Tuning



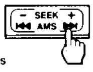
If you do not know the frequency of the station you wish to tune in, it is useful to use the Automatic Tuning function.

1 **Select the desired band from FM1, FM2, MW and LW.**
Each time the button is pressed, it changes in the order of FM1 → FM2 → MW → LW.

2 **Press – SEEK + button.**



To search for lower frequencies

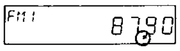


To search for higher frequencies

The scanning stops when a station is received. Press the button repeatedly until the desired station is received.

3 **Adjust the volume with (–) or (+).**

While receiving FM broadcasting

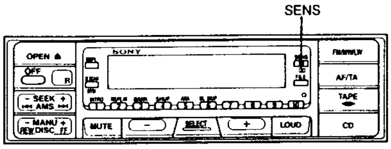


The "ST" indication will appear when an FM stereo program with sufficient signal strength is tuned in. The program will be received in stereo.

Getting the clock indication while listening to the radio
Press the DSPL button. Each time you press the button, the display mode changes as follows:

↓
Station name display mode*
↓
Frequency display mode
↓
Clock display mode

* Refer to page 31 for the station name display mode.

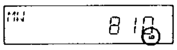


Avoiding the Automatic Tuning from Stopping on Stations Too Frequently

—Local Seek Mode

Press

to get the LCL indication.

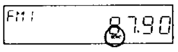


The mode changes to that of the local seek mode where only the stations with relatively strong signals are tuned in. It functions only when the Automatic Tuning is in operation.

If FM Stereo Broadcasting is Difficult to Receive—Monaural Mode

Press

to get the MONO indication.



The sound improves, but it will become monaural.

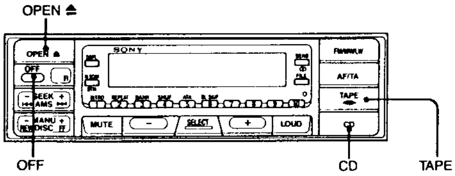
When you press the SENS button, the mode changes as follows:

While receiving FM broadcasting

↓
LCL
↓
MONO
↓
canceled (normal mode)

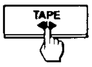
While receiving AM broadcasting

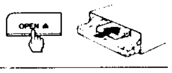
↓
LCL
↓
canceled (normal mode)

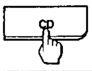


Other Operations

To stop the radio and listen to tape playback

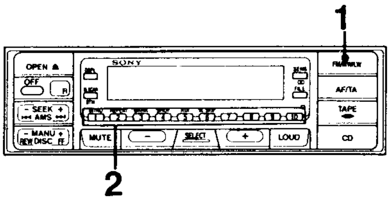
If a cassette is loaded →


If a cassette is not loaded →


To stop the radio and listen to a CD →


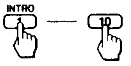
To turn off the radio and cut the power supply →

Receiving Stations Stored in the Memory



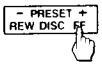
1 **Select the desired band from FM1, FM2, MW and LW.**
The band changes in the following order:
FM1 → FM2 → MW → LW.

2 **Press the preset button lightly on which the desired station is stored.**



Note
There may be cases where even the stations which are stored in the memory can not be received due to weak signals in the vicinity of your car.

Receiving in Order the Stations Stored in the Memory—*Preset Search Function*
(Remote Commander Only)



The number will advance in the following order:
1 → 2 → 3 → … → 8 → 9 → 10 → 1 → …
(number of the preset buttons)

– PRESET +
REW DISC FF

The number will reverse in the following order:
1 → 10 → 9 → … → 4 → 3 → 2 → 1 → …

If you keep the button pressed, it will go faster

Overview of the RDS Function

What is RDS?

The RDS (Radio Data System) is a radio digital information system developed and introduced in 1987 by the EBU (European Broadcasting Union). Using the 57 kHz sub-carrier of FM broadcasting, the RDS let you receive a variety of information such as station names and traffic information. It also offers useful functions such as automatic re-tuning of the best available signal carrying the chosen program.

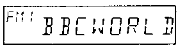
The RDS digital data includes the followings:

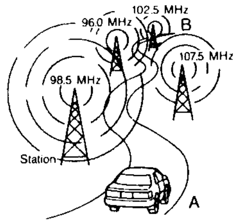
PI	Program Identification
PS	Program Service Name
AF	List of Alternative Frequencies
TP	Traffic Program
TA	Traffic Announcement
PTY	Program Type

The following functions are available with this unit using the RDS data. Refer to the marked pages for the operational instructions.

Station Service Name Display *(page 31)*

This function displays the name of the station which is currently tuned in on the display window.





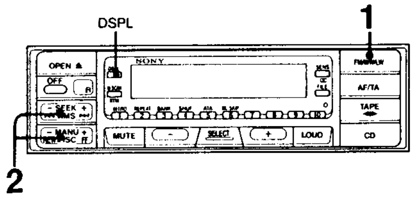
Automatic Re-tuning — *AF Function (page 32)*

This function automatically re-tunes in a station with a relatively stronger signal within the same broadcasting network using the PI and AF data.
The illustration above shows an example of a car passing through an area with four stations of the same broadcasting network between points A and B.
As the car moves on, the reception frequency of the station in the network changes from 98.5 MHz to 107.5 MHz then to 96.0 MHz and to 102.5 MHz.
By using the AF function, the driver will be able to keep listening to a program in the same broadcasting network without tuning in the station manually every time he enters a different frequency zone between points A and B.

Traffic Information Reception
— TA Function (page 34)

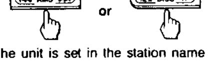
This function searches and stands by for a traffic information station using the TP and TA data.
Using this function, the unit automatically seaches the station and changes its mode to receive the traffic information when the broadcasting starts while you are listening to a tape or CD.

Station Name Display



1 **Press the FM/MW/LW button to select FM1 or FM2.**

2 **Tune in a desired station by using the Automatic Tuning or Manual Tuning (page 21 or 24).**



If the unit is set in the station name display mode and a station transmitting the RDS data is received, the name of that station will be displayed on the display window.

When the "--------" indication appears on the display window in the station name display mode
The received station is not a RDS station.

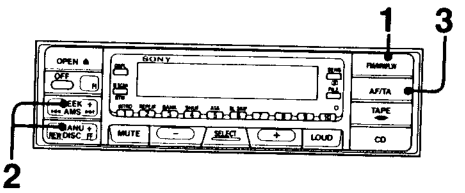
When the unit is in the frequency display mode and a RDS station is received
The "⁝(" display will come on to indicate that a RDS station is received. To find out the name of the station, press the DSPL button to change the display mode.

Notes
- RDS data can be received only on the FM band and not on the MW and LW bands.
- The RDS functions of this unit will not be activated if the FM station being received is not transmitting the RDS data. It may also not work properly in an area where the RDS transmissions are in the experimental stage.

You can change the display mode by pressing the DSPL button
Each time you press the button, the display mode changes as follows:

↓
Station name display mode
↓
Frequency display mode
↓
Clock display mode

Automatic Re-tuning —AF Function

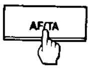


1 **Press the FM/MW/LW button to select the FM1 or FM2.**

2 **Tune in a desired RDS station by using the Automatic Tuning or Manual Tuning. (page 21 or 24)**

or

3 **Press the AF/TA button to get the "AF" indication.**



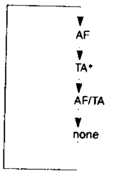
If the signal level of the tuned in RDS station falls below a certain point, the unit will begin to search for an alternative station with a stronger signal in the same network from the AF data (List of Alternative Frequencies). If a stronger signal station is found, the unit re-tunes in the station.

Notes

- When the "AF" indication is on the display window, only the RDS station can be tuned in by the Automatic Tuning.
- If the tuned in RDS station is not transmitting the AF data, this function will not work.
- If you press the AF button while the MW or LW band is tuned in, the FM1 band will be automatically selected.

The AF/TA button
Each pressing on the button changes the function cyclically as follows:

Indication



* See page 34 for the TA function.

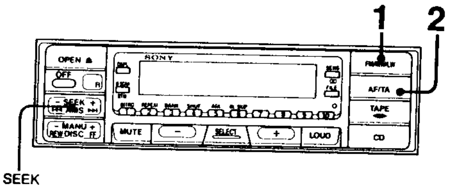
Network Stations Memory

When the unit stores the RDS station transmitting the AF data on the preset button, it stores not only its frequency but also its PI and the AF data. The AF data carries the information of the list of the frequencies of the stations within the same broadcasting network. The unit will store the data in its memory whether the AF function is activated or not.

Getting the Stored RDS Stations in Tune from the Broadcasting Networks

Be sure to press the preset buttons after pressing the AF/TA button to activate the AF function. The AF function will select a better signal station by re-tuning within the network stations. If you press the preset buttons without activating the AF function, you will not be able to use this function. In this case you will only get the individual stations which were tuned in on the previous occasion. The unit will not re-tune to the other stations in the network even if they are stored in the memory.

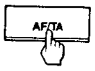
Receiving Traffic Information —TA Function



Receiving a Traffic Information Station

1 **Press the FM/MW/LW button to select the FM1 or FM2.**

2 **Press the AF/TA button to get the "TA" indication.**



The search for a traffic information station will start. When a RDS station transmitting the TP data is found, the search stops and the "TP" indication will come on to the display window.

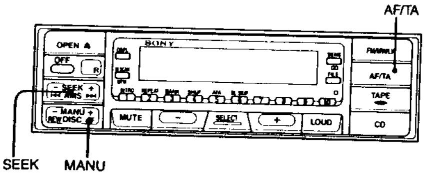
The "TA" indication will flash while the traffic information broadcasting is on the air. It will stop flashing when the broadcasting is over.

To search for another RDS station transmitting traffic information
Press the SEEK button while the "TA" indication is still on the display window.

Notes

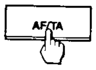
- Do not activate the TA function in an area where there is no traffic information broadcasting service available. If you do so, the unit will keep searching for it and other stations cannot be tuned in.
- If you activate the TA function while the MW or LW band is tuned in, the FM1 band will be automatically selected and start searching for a traffic information station.

"TP" indication
This indicates that the currently tuned in RDS station offers traffic information service.



Standing by for Traffic Information while Listening to a Tape or CD

Press the AF/TA button to get the "TA" indication during a tape playback or CD play.



The playback continues while the unit searches for a traffic information station.

When a station is found:
The "TP" indication will come on the display window.

↓

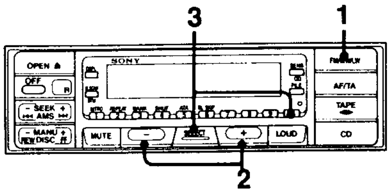
When a traffic information broadcasting starts:
The "TA" indication will start flashing. The tape or CD play stops and the traffic information will be heard.

↓

When the broadcasting is over:
The tape playback or CD play resumes from where it was left off.

To cancel the stand-by mode
Press the AF/TA button to turn off the "TA" indication.

Changing the display to that of the frequency or station name during tape playback or CD play
Press the DSPL button few times. While the frequency or station name is being displayed, the SEEK, MANU buttons and preset buttons will function in the same way as they do in the radio reception.



Traffic Information is Heard at the Preset Volume Level

When traffic information broadcasting strats, you can hear it at the preset volume level even if the volume control on the front panel has been turned down. (If you are listening to other sources with higher volume level, the level will not change.) The preset volume level can be set in the following manner:

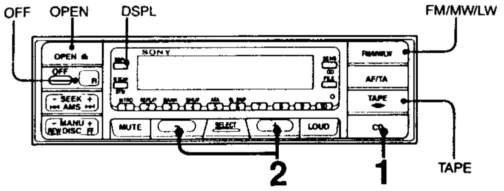
1 **Press the FM/MW/LW button to select FM1 or FM2.**
2 **Adjust the volume to the desired level with – or + button.**
3 **Press the preset number 10 button while pressing the SELECT button.**
A beep sound will be heard and the setting is completed.

PTY (alarm) Data Reception

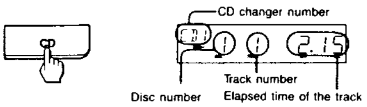
In case of emergency, or in a situation where there may be danger from natural disaster in the area, the RDS stations will transmit the PTY data information to warn drivers that they are in danger. The data includes the character display and the interruption signal for automatically turning on the radio. **This data can be received while the AF or TA function is being activated.** If the unit receives the PTY data from a RDS station during tape playback or CD play, the "AF" indication on the display window will start flashing and tape playback or CD play stops. The radio will be automatically turned on to receive the emergency announcement from the station.

Listening to the CD Play

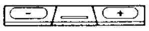
— When Optional Sony CD Changers are Connected



1 **Press the CD button to start CD play.**

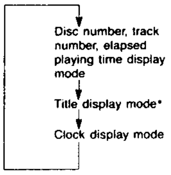


2 **Adjust the volume with ⊖ or ⊕.**



If it is set in the normal playing mode, after the end of a disc, the disc with the next number shown will be automatically played. If two or more CD changers are connected, after the end of the last disc, the first disc in the CD changer with the next number shown will be played. The order of the CD play can be rearranged by changing the playing modes. For details, see "Playing in Other Modes." (page 40)

Getting the clock display while listening to a CD
Press the DSPL button. Each time you press the DSPL button, the display mode will change cyclically as follows:

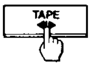

Disc number, track number, elapsed playing time display mode
Title display mode*
Clock display mode

* See pages 43, 44 and 47 for the details about the title display mode.

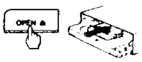
Other Operations

To stop the CD play and listen to a tape

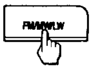
If a cassette is already loaded →



If a cassette is not loaded →

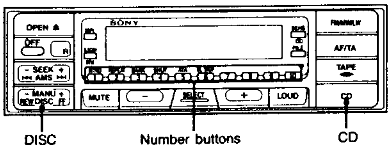


To stop CD play and listen to the radio →



To stop CD play and turn the unit off →

Locating a Desired Disc, Track, or Part of a Track



The useful functions of this unit enables you to quickly search a disc, track, or parts of track which you wish to listen to.

Locating a Disc of Your Choice Sequentially

Press the DISC button lightly during CD play.

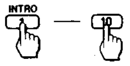
To search previous disc numbers →

To search the disc numbers ahead →

You can search a disc by displaying the names of discs registered with the Custom File Function. For details, see page 43.

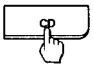
Locating a Disc Directly

Press the corresponding disc number button for more than two seconds during CD play.

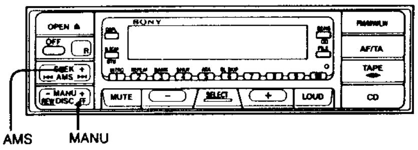


Listening to the Discs in Another CD Changer *(when two or more changers are connected)*

Press the CD button during CD play.



The CD changer number changes.



Locating the Beginning of a Track

—AMS Function

Press the AMS button during CD play.

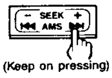
To listen to the current track again from the beginning →

To search for previous tracks →

(Keep on pressing)

To listen to the next track from the beginning →

To search for the beginning of the track ahead →



(Keep on pressing)

Note
When you keep on pressing the AMS button and come to either the beginning or end of a disc, you will not be able to go any further.

Searching for a Desired Part of Track

—Manual Search

Keep on pressing the MANU button during CD play.

To go ahead →

(Keep on pressing)

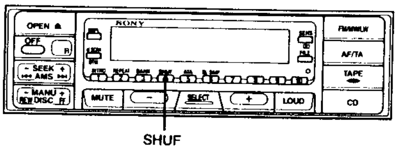
To go back →

(Keep on pressing)

The elapsed playing time of the track comes on to the display window during the manual search.

Note
You cannot use the Manual Search on the remote commander.

Playing in Other Modes



Playing Discs Randomly—*Shuffle Play Function*

Playing the tracks on a disc randomly —Inter disc shuffle play

Press SHUF to get the "SHUF 1" indication.

When all the tracks on a disc have been played, it goes on to the next disc.

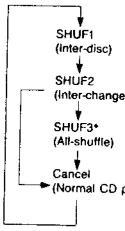
Playing the tracks on all discs in currently selected CD changer randomly—Inter changer shuffle play

Press SHUF to get the "SHUF 2" indication.

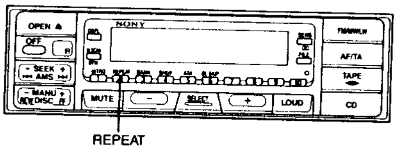
Playing the tracks on all discs in all CD changers connected randomly—All shuffle play (When two or more CD changers are connected)

Press SHUF to get the "SHUF 3" indication.

The function of the SHUF button changes cyclically as follows:



* All-shuffle play (SHUF3) mode functions only when two or more changers are connected to the unit. When only one changer is connected, the "SHUF3" indication will not come on. In this case, if you press the button once again when the SHUF2 indication comes on, the shuffle play will be canceled.



Playing a Disc Repeatedly —*Repeat Play Function*

Playing the current track repeatedly—Track repeat

Press REPEAT to get the "REP1" indication.

When the current track is finished, it will go back to the beginning and start playing the same track again.

Playing the current disc repeatedly—Disc repeat

Press REPEAT to get the "REP2" indication.

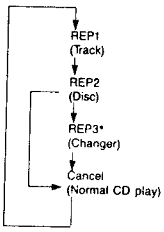
When the last track of the current disc is finished, it will go back to the beginning of the first track of the same disc and start playing again.

Playing the discs in currently selected CD changer repeatedly—CD changer repeat (When two or more CD changers are connected)

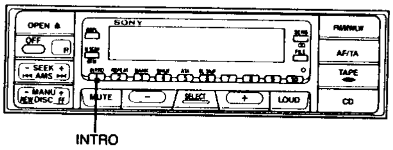
Press REPEAT to get the "REP3" indication.

When the last disc of currently selected CD changer is finished, instead of moving to another changer, it goes back to the first disc of same changer and starts playing again.

The function of the REPEAT button changes cyclically as follows:



* CD changer repeat (REP3) mode functions only when two or more changers are connected to the unit. When only one changer is connected, the "REP3" indication will not come on. In this case, if you press the button once again when the REP2 indication comes on, the repeat play will be canceled.



Searching for a Desired Track by Listening to the First 10 Seconds of Each Track

—Intro Scan Function

Press INTRO while listening to a CD.

The unit will play in order the first 10 seconds of each track on a disc.
When the first 10 seconds of last track on a disc is played, it will move on the the next disc.
When the first 10 seconds of last track which is on the last disc in a CD changer is played, it will move on to the next CD changer (only when two or more CD changers are connected).

When you find the desired track
Press the INTRO button once more. The intro scan function will be canceled and you can continue to listen to the track.

Overview of the Custom File Function

CD Title Display Function

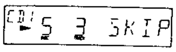
—Disc Memo Function (page 44)

You can put a title of your own choice to a CD (one title per CD). The title can be displayed on the display window while the CD is being loaded and played.

Music Play and Skip Function

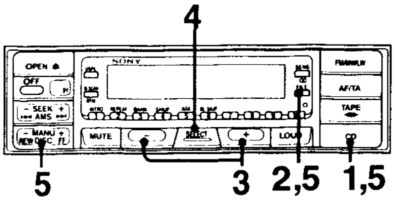
—Delete Bank Function (page 48)

Each track can be set to be either played or skipped while the CD is playing, so that only desired tracks on the CD can be played.



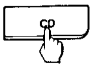
Indications while the Delete Bank function is being set.

Displaying the Title of Each Disc

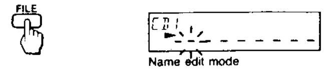


Putting Your Personalized Titles onto the Discs

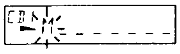
1 **Play the disc that you wish to title.**



2 **Press the FILE button for more than two seconds to enter the name edit mode.**



3 **Press either ⊖ or ⊕ to select the desired letter and number.**

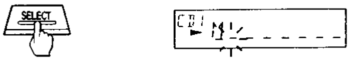


Each time you press the ⊖or ⊕ button, characters will come on in the following order:

⊕ ➡ _ →A→B→C→...→X→Y→Z→0→1→2→3→...

⊖ ➡ _ →.→(→)→\→/→*→–→+→9→...

4 **Press the SELECT button after locating the desired letter or number.**



The blinking part will move to the next space on the right. Repeat steps 3 and 4 to enter the entire titles. Up to 8 characters can be used per disc.

Notes
- If you press the SELECT button when the eighth letter (farthest right letter) is blinking, the blinking part goes back to the first letter (farthest left letter).
- If you wish to put a blank space after a character, select the " "

5 **Register the title. Use one of the following methods ① through ④.**

① **Press the FILE button for more than two seconds.**

The unit will go back to the normal CD playing mode.

② **Press the FILE button lightly.**

(Press lightly)

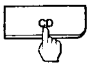
The unit enters the PLAY/SKIP mode in which the play and skip modes can be set. (Continue to step 4 in "Setting of the Play and Skip Modes on the Discs" of page 48)

③ **Press the DISC button.**

(Press lightly)

You can change the disc and continue to put the titles to the discs.

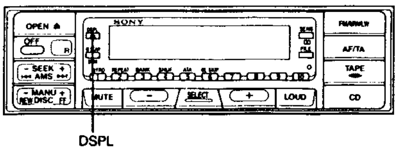
④ **Press the CD button. (Only when two or more CD changers are connected.)**



You can go to the next CD changer and the unit will go back to the normal playing mode.

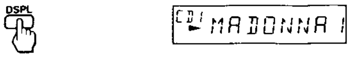
Where are the contents of the custom file stored?
The information registered in the custom file will be stored in the memory of currently selected CD changer. Therefore, if you play a custom-filed CD in a CD changer which is not connected with a UNILINK cable to each other such as in another car, you will not be able to have its title displayed. The Delete Bank function will not be activated either.
However, you will be able to have the CD titles displayed even if they are not loaded in their original CD changers provided that the CD changers are connected to each other by a UNILINK cable.

You can register the maximum of 110 discs on one CD changer
If you try to register more than 110 discs, the unit will display "FULL" on the display window and will not accept the command for custom-filing. In this case, you will have to erase the memory of the other discs before you enter the new ones. See page 52 for details on erasing the memory.



Displaying the Title

While the CD is playing, press the DSPL button to enter the title display mode.



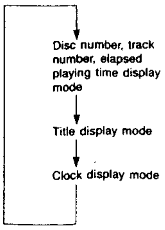
If the title of a disc is not registered, "--------" will come on the display window.

While loading the discs
Whatever the display mode is, the indication automatically changes as follows:

Title of the disc (2 seconds) → Disc and track number (2 seconds) → Display mode currently selected

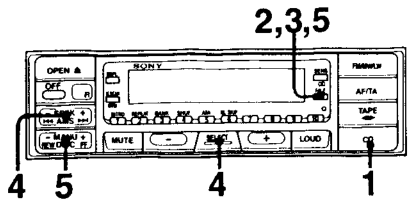
The registered titles of the discs may not come on the display immediately during loading. This occurs because the unit displays the title after identifying the disc by reading the TOC* (Table of Contents) information of the disc. Therefore, while the CD changer is loading the disc for the first time, the registered title of the disc cannot be displayed. Once the disc has been loaded and played, the TOC information would have been read and the title will be displayed even while the disc is being loaded.

Each time you press the DSPL button while the CD is playing
The indication on the display window will change cyclically as follows:


Disc number, track number, elapsed playing time display mode
Title display mode
Clock display mode

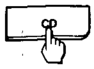
* The TOC information of the disc contains the total length of playing time and the codes to search the beginning and end of each track, and so on.

Playing Only Desired Tracks on a Disc

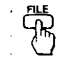


Setting the Play and Skip Modes on the Discs

1 **Play the disc to which you wish to set these modes.**

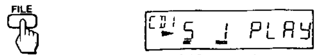


2 **Press the FILE button for more than two seconds and put the titles onto the discs.**



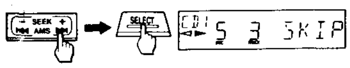
See page 44 for details about putting a title. If the title has already been registered, go to step 3.

3 **Press the FILE button lightly to enter the PLAY/SKIP edit mode.**
When the unit enters the PLAY/SKIP edit mode, the indication on the display window will look like the illustration below.



PLAY/SKIP edit mode

4 **Press the AMS button to select the track number you wish to skip and press the SELECT button.**



The indication changes from "PLAY" to "SKIP". If you wish to return to "PLAY", press the SELECT button again.

Repeat the operation in this step to enter either the "PLAY" or "SKIP" mode on all the tracks.

Notes
- When the title is not registered, you cannot enter the PLAY/SKIP edit mode even if you press the FILE button.
- You can only set the "SKIP" mode onto up to 24 tracks. If a disc has more than 24 tracks, you will not be able to set the SKIP mode on the tracks after the 24th track.
- You cannot set the SKIP mode onto all of the tracks on a disc.

5 **To register the settings, use one of the following methods ① through ④.**

① **Press the FILE button for more than two seconds.**

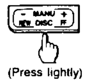
The unit will go back to the normal CD playing mode.

② **Press the FILE button lightly.**

(Press lightly)

The unit re-enters the name edit mode. See page 44.

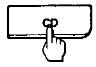
③ **Press the DISC button.**



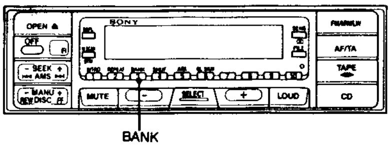
(Press lightly)

You can change the disc and continue to put the titles to the discs.

④ **Press the CD button. (Only when two or more CD changers are connected.)**

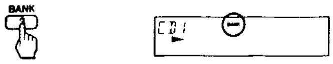


You can go to the next CD changer and the unit will go back to the normal playing mode.



Playing with the Delete Bank Function

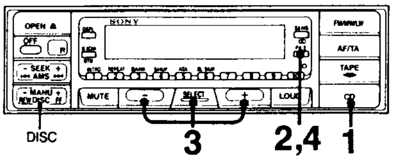
Press the BANK button to get the "BANK" indication.



The discs will be played according to the settings of the PLAY/SKIP edit mode.
To cancel, press the BANK button again.

Note
When you press the BANK button and the "BANK" indication does not come on the display window, the unit will not play the disc with the Delete Bank function even if the PLAY/SKIP edit mode was previously set to the disc.

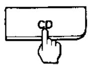
Editing a Custom File



When you change the title, the PLAY/SKIP setting of the Delete Bank function will not be erased at the same time.

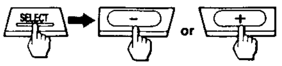
Changing the Title and the Delete Bank Settings

1 **Play the disc you wish to edit.**



2 **Press the FILE button for more than two seconds to enter the name edit mode.**

3 **Press the SELECT button to make the part you wish to edit flashing. Select the letters and numbers using the ⊖ or ⊕ button.**

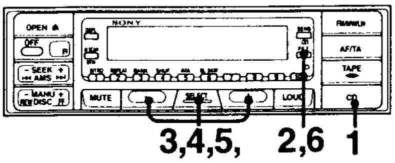


If you wish to change the titles of other discs, repeat steps 1 through to 3 on the discs after changing them with the DISC or CD button.

4 **Press the FILE button for more than two seconds.**

Now the new title is registered.

Note
If you wish to change the PLAY/SKIP settings of the Delete Bank function, press the FILE button lightly to enter the PLAY/SKIP mode while the unit is in the name edit mode in the step 2. While checking the disc and track numbers on the display window, change the setting by the AMS and SELECT buttons. Press the FILE button lightly again and the unit will enter the name edit mode again.



When you erase the title, the PLAY/SKIP mode of the Delete Bank settings will be erased as well.

Erasing a Title

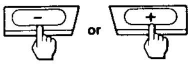
1 **Select the CD changer and play any disc.**

2 **Press the FILE button for more than two seconds to enter the name edit mode.**

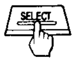
3 **Press the number 9 button while pressing the SELECT button.**

The titles stored in the CD changer currently selected will appear on the display window.

4 **Press the (–) or (+) button to search for the title you wish to erase.**



5 **Press the SELECT button for more than two seconds after the title you wish to erase is displayed.**



Repeat steps 4 and 5 on other titles, if necessary.

6 **Press the FILE button for more than two seconds.**

Now the title and the Delete Bank settings are erased. The unit goes back to the normal CD playing mode.

The alternative method to erase a title
You can erase a title by selecting eight "_"s (under-bars) as described in step 3 of "Changing the Title and the Delete Bank Settings" (Page 51)

Maintenance

Fuse Replacement

If the fuse blows, check the power connection and replace the fuse. If the fuse blows again after replacement, there may be an internal malfunction. In this case, consult your nearest Sony dealer.

Warning
Use the specified ampere fuse.
Use of a higher amperage fuse may cause serious damage.

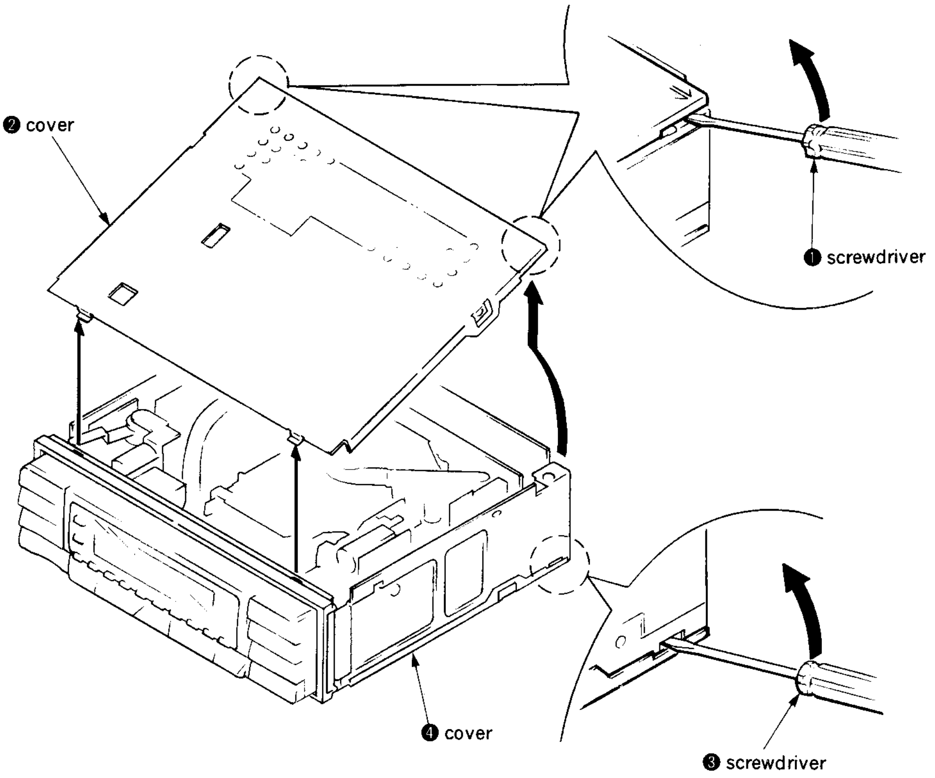
Cleaning the Head and the Tape Path

Prolonged use may contaminate the tape head and the tape path. Contamination causes sound drop-outs in playback.
Clean the tape head and the tape path every two weeks to enjoy optimum hi-fi stereo sound.
Use a commercially available cleaning cassette.

SECTION 2
DISASSEMBLY

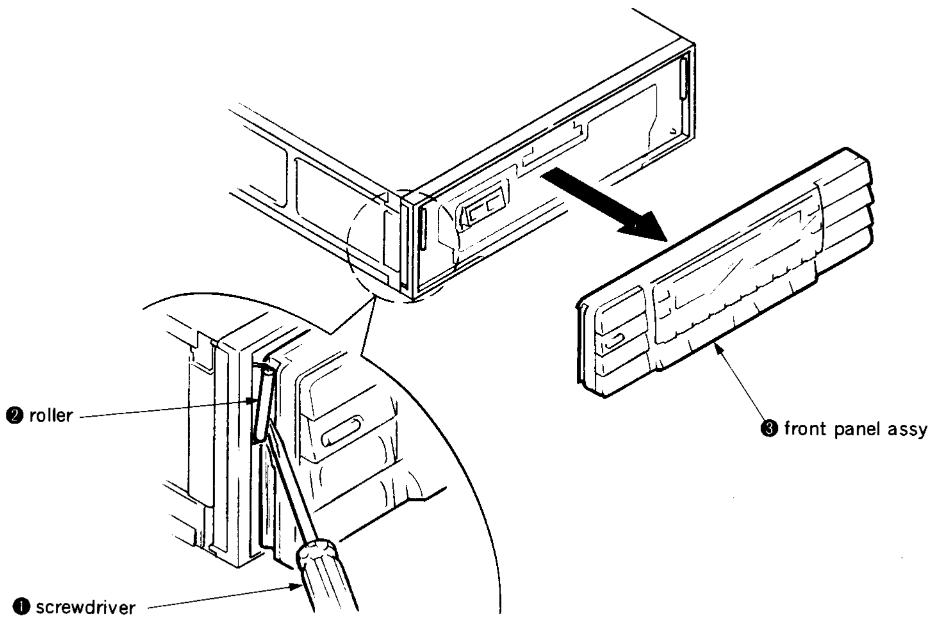
Note : Follow the disassembly procedure in the numerical order given.

2-1. COVER



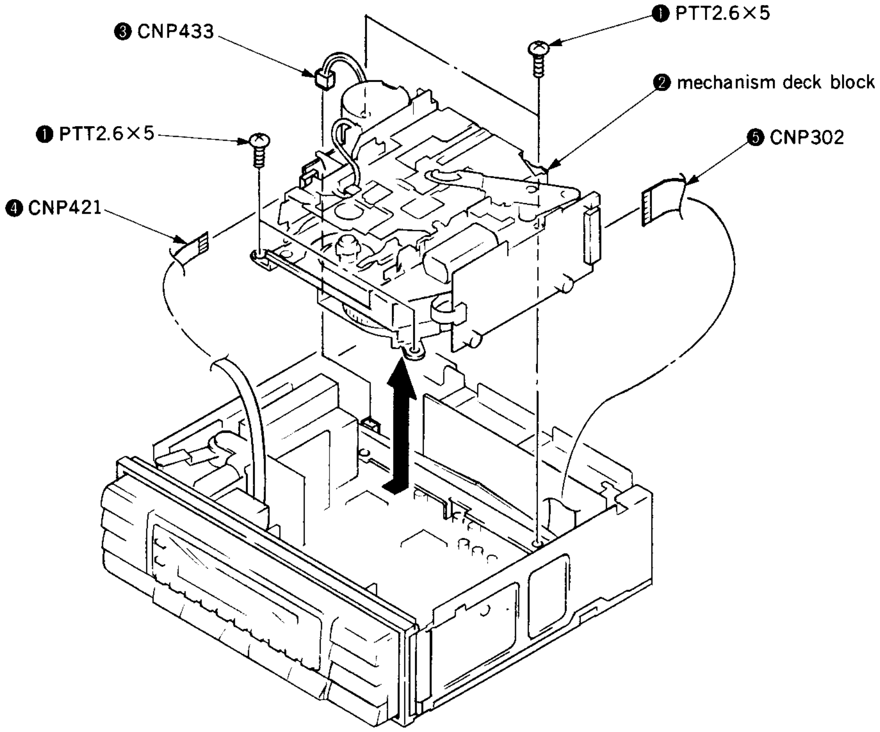
❷ cover
❶ screwdriver
❹ cover
❸ screwdriver

2-2. FRONT PANEL ASSY

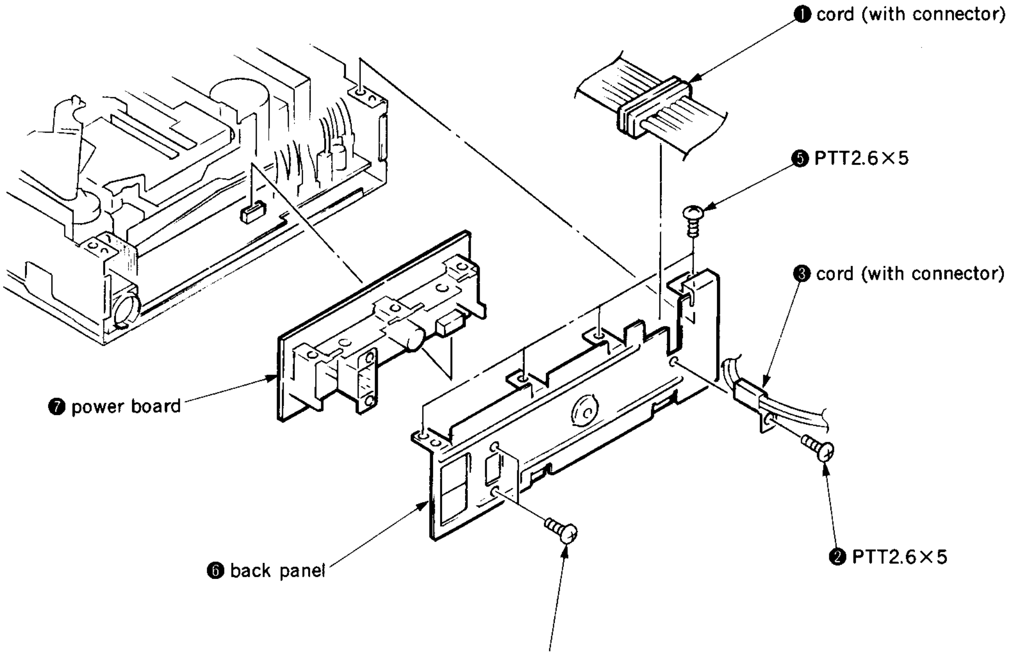


❷ roller
❶ screwdriver
❸ front panel assy

2-3. MECHANISM DECK BLOCK


❸ CNP433
❶ PTT2.6×5
❷ mechanism deck block
❶ PTT2.6×5
❺ CNP302
❹ CNP421

2-4. POWER BOARD


❶ cord (with connector)
❺ PTT2.6×5
❸ cord (with connector)
❼ power board
❻ back panel
❷ PTT2.6×5
❹ PTT2.6×5

SECTION 3
DIAGRAMS

3-1. PIN DESCRIPTIONS

Master Microcomputer IC501 (μPD75116GF-E47-3BE)

Pin No.	Name	I/O	Description
63	POS 3	I	Mechanism Deck Position Detection pin. (See the table below.)
64	POS 2	I	
1	POS 1	I	
2	POS 0	I	

*(With tape rotation in normal direction)

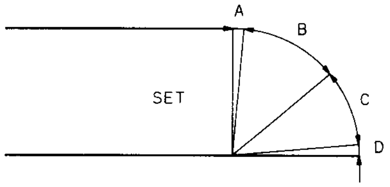
	EJECT	STOP	←→	FF	←→	REW	←→	PLAY
POS 0	L	L	L	H	H	H	H	H
POS 1	H	H	L	L	L	H	H	H
POS 2	H	H	H	H	L	L	L	H
POS 3	L	H	H	H	H	H	L	L

H : High input, L : Low input

Pin No.	Name	I/O	Description
3	LINK OFF	O	Not used.
4	AMP ON	O	Not used.
5	POWER-ON	O	Power ON/OFF Output pin. Set this output ”High” to turn power on. Set it ”Low” to turn all power off.
6	ACC-ON	O	Button Illumination Power ON/OFF Output pin. Set this output ”High” to turn the power on.
7	$\overline{\text{RESET}}$	I	Reset pin.
8	X2	—	Connection pin for System Clock Oscillation. 4.19MHz connection.
9	X1	I	
10	DM CLOSE	O	Nose Open/Close Motor Control pin.
11	DM OPEN	O	

DM OPEN DM CLOSE	High	Low
High	——	Close
Low	Open	Stopped

Pin No.	Name	I/O	Description
12	$\overline{\text{SYSTEM RESET}}$	O	Pin which resets all of slave microcomputers that are connected and are communicating on the UNILINK BUS. Switching this output from ”Low” to ”High” level causes resetting. Usually it is kept ”High”.
13	SYNC	O	Pin which outputs the pulse for determining timing of communication to data line. (UNILINK BUS interface SYNC pin)
14	MUTE	O	Output pin used to enable Audio Muting. This output is kept ”High” during audio muting.
15	CLK VOL	O	Pin for Clock Output to the electronics VOL IC (IC 321: LC7537AN).
16	DATA VOL	O	Pin for Data Output to the electronics VOL IC.
17	CE VOL	O	Pin for CE Output to the electronics VOL IC. This output is used as the latch signal to send data.
18	NOSE	I	Initialization pin which determines whether the nose is removed or not. When this input is ”High”, there are no nose removal failure caution alarm, no cassette EJECT and no nose open function (by means of pressing OPEN button for two sec).
19	B/C (INT)	I	Initialization pin which determines whether Dolby B NR only or Dolby B and C NR. When ”Low”, this input sets both B and C. When ”High”, it sets B only.

<table>
<tr><th>Pin No.</th><th>Name</th><th>I/O</th><th>Description</th></tr>
<tr><td>20</td><td>$\overline{\text{CLOCK}}$</td><td>I</td><td>Initialization pin which determines whether the internal clock is present or not. When "Low", this input initializes the system with the clock present.</td></tr>
<tr><td>21</td><td>POWER SELECT</td><td>I</td><td>Power Select switch (initialization). Set this input "Low" to select Power select OFF setting (to cope with cars without accessary position).</td></tr>
<tr><td>22</td><td>PL</td><td>O</td><td>MD Plunger Control pin.</td></tr>
<tr><td>23</td><td>CM</td><td>O</td><td>MD Capstan Motor Control pin.</td></tr>
<tr><td>24</td><td>LM−</td><td>O</td><td rowspan="3">} MD Loading Motor Control pin
<table>
<tr><th>LM+ \ LM−</th><th>High</th><th>Low</th></tr>
<tr><td>High</td><td>Brake</td><td>Loading Direction</td></tr>
<tr><td>Low</td><td>Eject Direction</td><td>Stopped</td></tr>
</table></td></tr>
<tr><td>25</td><td>LM+</td><td>O</td></tr>
<tr><td></td><td></td><td></td></tr>
<tr><td>26</td><td>Vss</td><td>—</td><td>Vss pin.</td></tr>
<tr><td>27</td><td>DP 0</td><td>I</td><td rowspan="3">} Door (Nose) Position Detection pin.


<table>
<tr><th>Position</th><th>A</th><th>B</th><th>C</th><th>D</th></tr>
<tr><td>DP0</td><td>H</td><td>H</td><td>L</td><td>L</td></tr>
<tr><td>DP1</td><td>H</td><td>L</td><td>L</td><td>H</td></tr>
</table></td></tr>
<tr><td>28</td><td>DP 1</td><td>I</td></tr>
<tr><td></td><td></td><td></td></tr>
<tr><td>29</td><td>NSW</td><td>I</td><td>Nose Presence Detection pin. When "Low", this input indicates that the nose is removed.</td></tr>
<tr><td>30</td><td>CSW</td><td>I</td><td>Cassette Tape Presence Detection pin. When "High", this input indicates that cassette tape is present.</td></tr>
<tr><td>31</td><td>REEL 1</td><td>I</td><td>Cassette Tape Rotation Detection pin (this input indicates Take up side when tape is being rotated in normal direction).</td></tr>
<tr><td>32</td><td>REEL 2</td><td>I</td><td>Cassette Tape Rotation Detection pin (this input indicates Supply side when tape is being rotated in normal direction).</td></tr>
<tr><td>33</td><td>$\text{F}/\overline{\text{R}}$</td><td>I</td><td>Cassette Tape Run Direction Detection pin. When "Low", this input indicates REVERSE.</td></tr>
<tr><td>34</td><td>———</td><td>—</td><td>Not used. (Connected to GND.)</td></tr>
<tr><td>35</td><td>———</td><td>—</td><td>Not used. (Connected to GND.)</td></tr>
<tr><td>36</td><td>———</td><td>—</td><td>Not used. (Connected to GND.)</td></tr>
<tr><td>37</td><td>CLK OUT</td><td>O</td><td>Serial Communication Clock Output pin. (UNILINK BUS Interface Clock Output pin)</td></tr>
<tr><td>38</td><td>$\overline{\text{BUS ON}}$</td><td>O</td><td>UNILINK BUS Interface Bus ON Output terminal. Set this output "Low" to enable communication on the bus.</td></tr>
<tr><td>39</td><td>KEY RESET</td><td>O</td><td>Pin which resets the KEY DISPALY mircocomputer (IC 702).</td></tr>
<tr><td>40</td><td>BEEP</td><td>O</td><td>BEEP Output pin.</td></tr>
<tr><td>41</td><td>SI</td><td>I</td><td>Serves as both Serial Data Input pin and Detection pin for Communication Request from slave. (UNILINK BUS Interface Data Input pin)</td></tr>
</table>

Pin No.	Name	I/O	Description
42	SO	O	Serial Data Output pin. (UNILINK BUS Interface Data Output pin)
43	CLK IN	I	Serial Communication Clock Input pin.
44	BU CHECK	I	Power Voltage Detection pin.
45	$\overline{\text{ACC CHECK}}$	I	Accessory Voltage Detection pin. When "High", this input indicates ACC OFF.
46	$\overline{\text{TEL MUTE}}$	I	Pins which detects a telephone call. This input becomes "Low" to mute −20dB audio signal. It becomes "High" to return the signal to its original VOL level.
47	———	—	Not used. (Connected to GND.)
48	$\overline{\text{TV}}$/TV1,2	I	Intialization pin for the number of bands (preset count) for TV when the Hide-away TV tuner is connected. When "Low", this input sets 1 band (preset count to 10). When "High", it sets 2 bands for TV1,TV2 (preset count to 20).
49	$\overline{\text{KEY 5V}}$	O	Power Control pin for the KEY DISPALY microcomputer. Set this output "Low" to turn the power on.
50	$\overline{\text{AUX ON}}$	O	This output is "Low" when supplied as an external input of UNILINK IN AUDIO to CD, TV, etc. It supplies high impedance to other destinations.
51	$\overline{\text{D ON}}$	O	This output is "Low" when sound is being produced from cassette tape. Ohterwise, it supplies high impedance.
52	———	—	Not used.
53	———	—	Not used.
54	ANT ON	O	This output supplies high impedance when the tuner or TV is on. It is "Low" when any other source is on.
55	———	—	Not used.
56	———	—	Not used.
57	NC	—	Connected to VDD.
58	V_{DD}	—	V_{DD} pin.
59	B/C	O	This output is "High" when Dolby B NR is on. It is "Low" output when C NR is on.
60	DNR ON	O	This output is "Low" when Dolby NR is on. It is "High" when Dolby NR is off.
61	$\overline{\text{AMS IN}}$	I	Detection pin which determines whether tape sound is present or not. This input is "Low" when tape sound is present.
62	MTL	I	Tape $\overline{\text{NORMAL}}$/METAL Detection pin. This input is "Low" when normal tape is used.

Key Display Mircocomputer IC702 (μPD75008GB-632-3B4)

Pin No.	Name	I/O	Description
44	KI7	I	KEY SCAN Input pin.
1	KI6	I	
2	KI5	I	
3	KI4	I	
4	KI3	I	
5	KI2	I	
6	KI1	I	
7	KI0	I	
8	KO3	O	KEY SCAN Output pin.
9	KO2	O	
10	KO1	O	
11	KO0	O	
12	NC	—	(Connected to VDD.)
13	———	—	Not used.
14	———	—	
15	———	—	
16	———	—	
17	V_{SS}	—	V_{SS} pin.
18	XT1	—	(Connected to GND.)
19	XT2	—	Not used.
20	$\overline{\text{RESET}}$	I	Reset pin.
21	X1	I	Connection pin for System Clock oscillation. 4.19MHz connection.
22	X2	—	
23	LCD CLK	O	Pin for Clock Output to LCD DRIVER IC (IC 703: TC9240F)
24	LCD DATA	O	Pin for Data Output to LCD DRIVER IC.
25	LCD CE	O	Pin for CE Output to LCD DRIVER IC. This output is used as the latch signal to send data.
26	LCD INH	O	Pin for INH Output to LCD DRIVER IC.
27	LINK OFF	O	Not used.
28	REQ	O	UNILINK BUS Interface Request pin. This pin is "High" to request communication from the master microcomputer (IC 501).
29	DATA IN	I	Serves as both Serial Data Input pin and Detection pin for Communication Request from slave. (UNILINK BUS Interface Data Input pin)
30	DATA OUT	O	Serial Data Output pin. (UNILINK BUS Interface Data Output pin)
31	CLK IN	I	Serial Communication Clock Input pin. (UNILINK BUS Interface Clock Input pin)
32	BU CHECK	I	Power Voltage Detection pin.
33	———	—	(Connected to GND.)
34	NC	—	(Connected to VDD.)
35	$\overline{\text{TV CONT}}$	I	Not used.
36	$\overline{\text{BUS ON}}$	I	UNILINK BUS Interface Bus ON Terminal. When this output is "Low", communication on the bus is enabled.

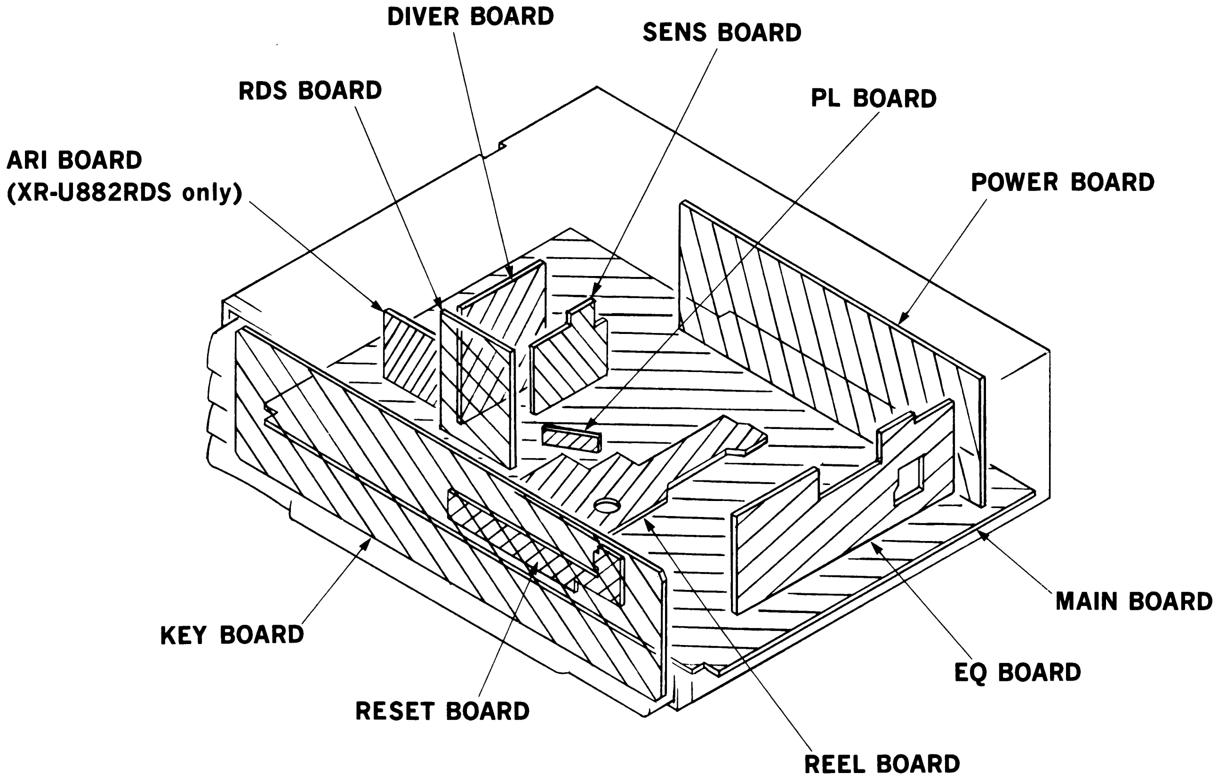
Pin No.	Name	I/O	Description
37	SIRCS	I	Infrared Remote Control Input pin.
38	NC	—	(Connected to V_{DD}.)
39	V_{DD}	—	V_{DD} pin.
40	LCD ON	O	LCD Back Illumination and LCD DRIVER IC Power Control pin.
41	ACC-ON ILL	O	Button Illumination Output for function keys. This output is "High" when ACC is ON and it is "Low" when ACC is OFF (with Power Select switch selected ON).
42	P-ON ILL	O	Button Illumination Output pin for buttons other than function keys. This output is "High" when power is turned on and it is "Low" when power is turned off.
43	COLOR	O	Illunimation Color Select Output pin. Set this output "High" to select Green. Set it "Low" to select Amber.

3-2. CIR

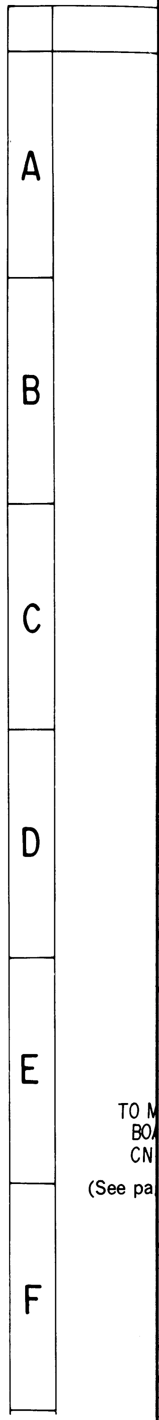
ARI B
(XR-U

Pin No.	Name	I/O	Description
37	SIRCS	I	Infrared Remote Control Input pin.
38	NC	—	(Connected to V_{DD}.)
39	V_{DD}	—	V_{DD} pin.
40	LCD ON	O	LCD Back Illumination and LCD DRIVER IC Power Control pin.
41	ACC-ON ILL	O	Button Illumination Output for function keys. This output is "High" when ACC is ON and it is "Low" when ACC is OFF (with Power Select switch selected ON).
42	P-ON ILL	O	Button Illumination Output pin for buttons other than function keys. This output is "High" when power is turned on and it is "Low" when power is turned off.
43	COLOR	O	Illunimation Color Select Output pin. Set this output "High" to select Green. Set it "Low" to select Amber.

3-2. CIRCUIT BOARDS LOCATION


DIVER BOARD
SENS BOARD
RDS BOARD
PL BOARD
ARI BOARD
(XR-U882RDS only)
POWER BOARD
MAIN BOARD
KEY BOARD
EQ BOARD
RESET BOARD
REEL BOARD

3-3. PRINT


A
B
C
D
E
F
TO M
BO
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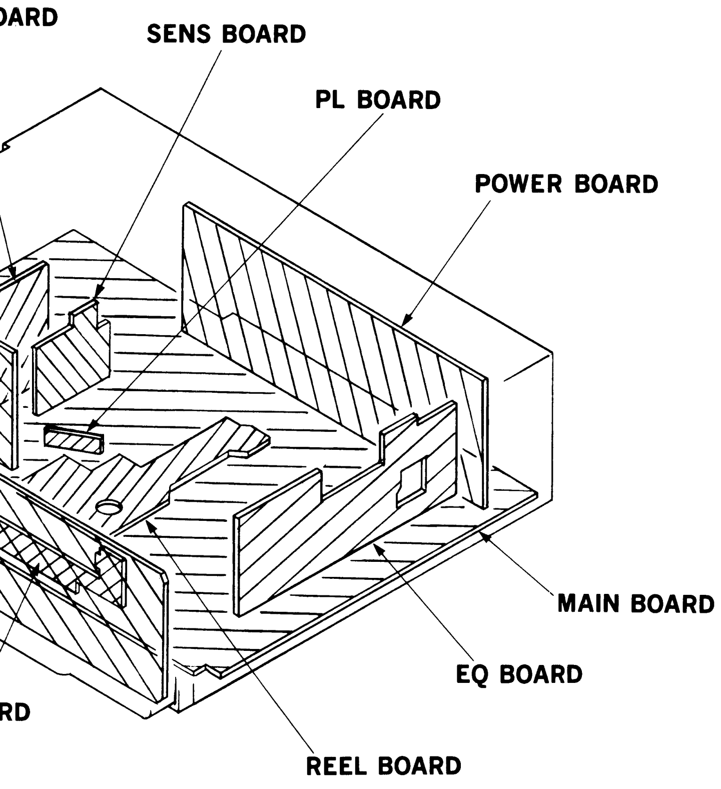
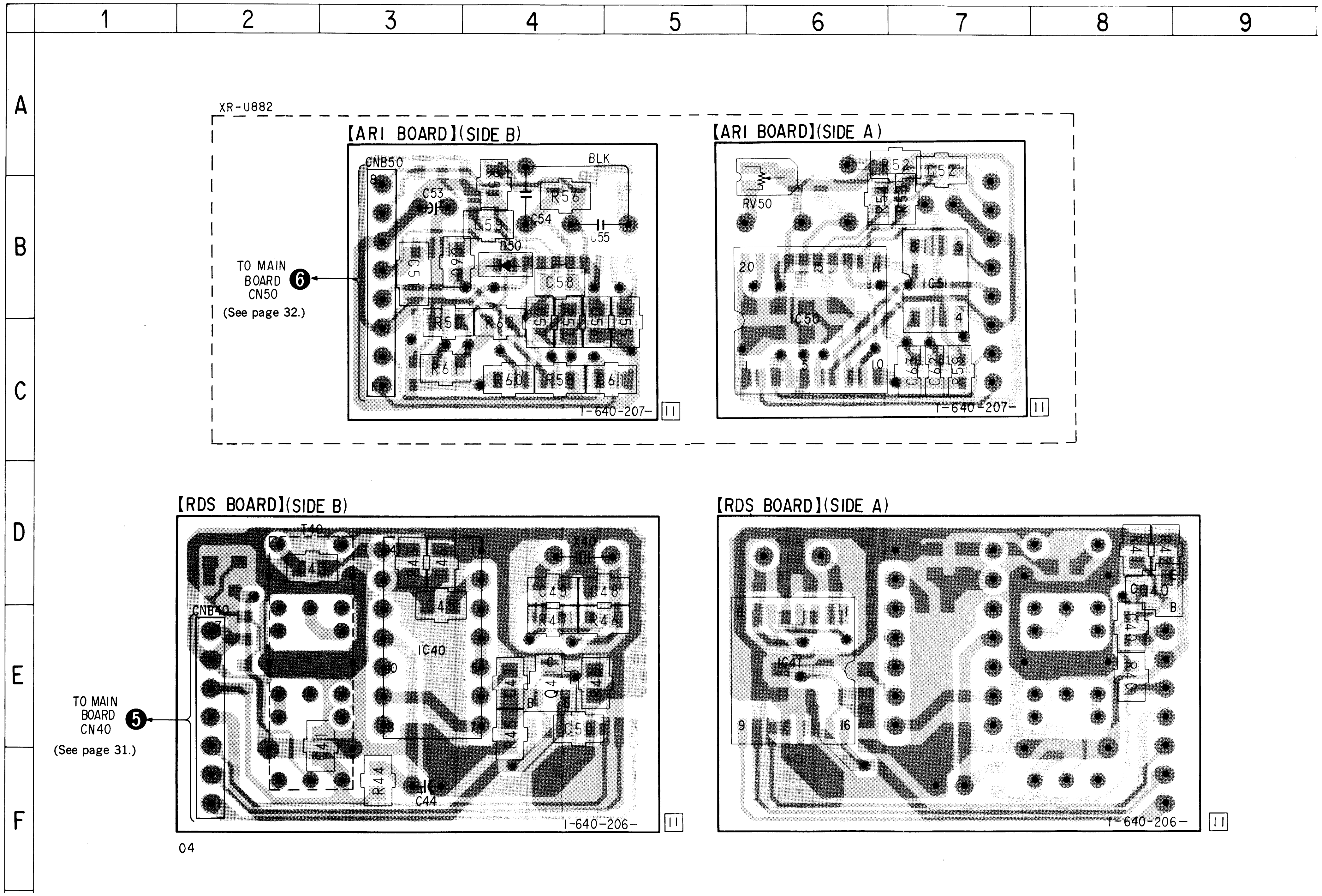
• Sem

Ref.
D50
IC40 IC41 IC50 IC51
Q40 Q41


ARD
SENS BOARD
PL BOARD
POWER BOARD
MAIN BOARD
EQ BOARD
REEL BOARD
RD

3-3. PRINTED WIRING BOARDS —ARI, RDS SECTION—

- Refer to page49 for Semiconductor Lead Layouts.


1
2
3
4
5
6
7
8
9
A
B
C
D
E
F
XR-U882
【ARI BOARD】(SIDE B)
【ARI BOARD】(SIDE A)
CNB50
BLK
C53
C54
C55
C59
C56
R56
D50
C58
C57
R57
R62
R61
R60
R58
C61
1-640-207-
11
TO MAIN BOARD CN50
6
(See page 32.)
RV50
R52
C52
R54
R53
IC51
IC50
20
15
11
8
5
4
1
10
C62
C63
R59
1-640-207-
11
【RDS BOARD】(SIDE B)
【RDS BOARD】(SIDE A)
T40
CNB40
IC40
X40
C49
C48
R47
R46
C45
Q41
C50
R45
R44
C44
C41
1-640-206-
11
04
TO MAIN BOARD CN40
5
(See page 31.)
IC41
R41
R42
Q40
R40
C40
B
9
16
8
1
1-640-206-
11

- **Semiconductor Location**

Ref. No.	Location
D50	B-4
IC40	E-3
IC41	E-6
IC50	B-6
IC51	B-7
Q40	D-8
Q41	E-4

MC-Service

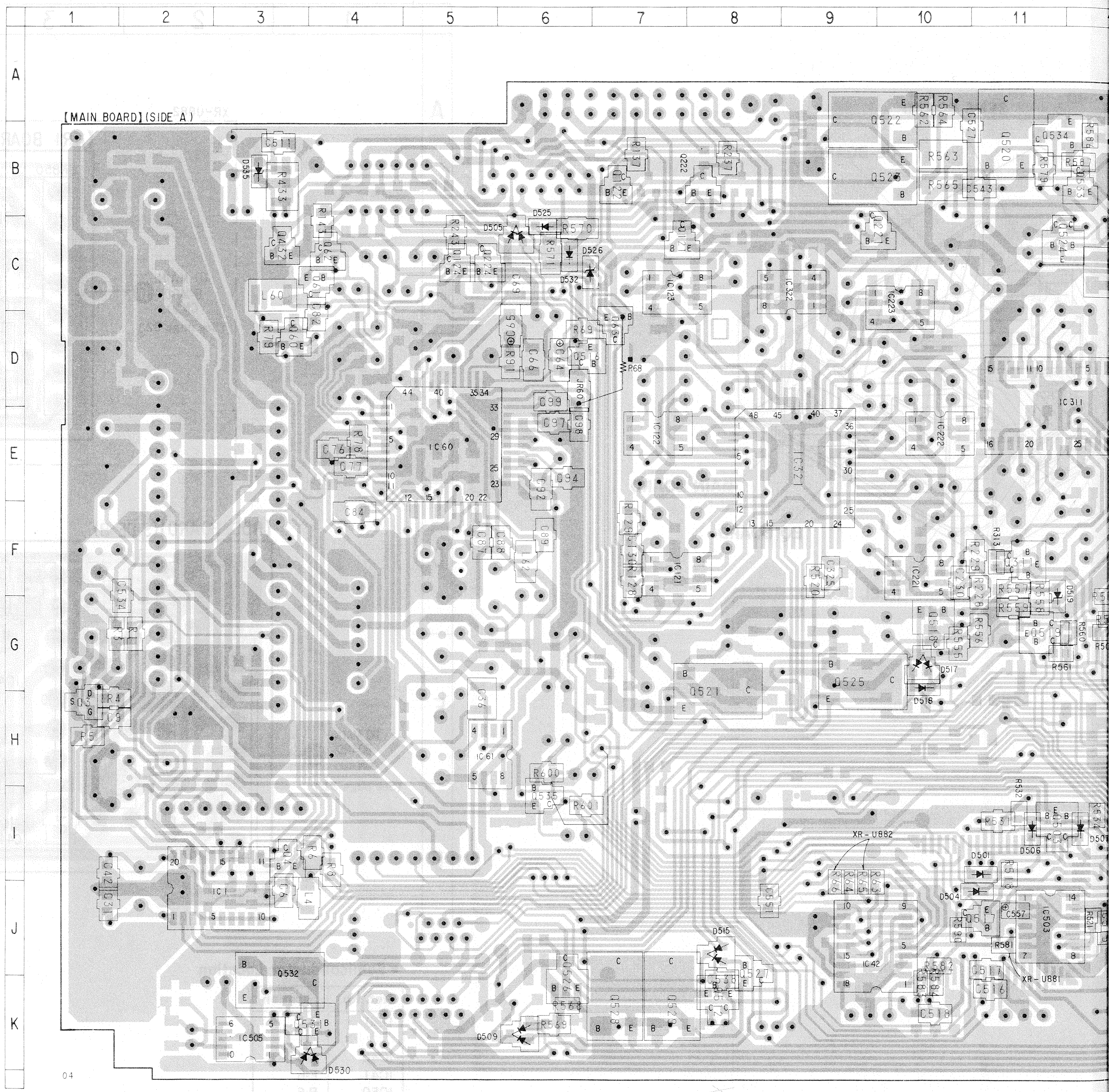
Note:
- ——— : parts extracted from the conductor side.
- ● : Through hole.
- ░ : Pattern on the side which is seen.
- : Pattern of the rear side.

• Semiconductor Location

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D1	D-29	IC60	E-5	Q518	G-10
D2	J-28	IC61	H-5	Q519	G-11
D10	F-32	IC121	F-7	Q520	B-11
D11	F-31	IC122	E-7	Q521	H-8
D12	B-32	IC123	C-7	Q522	B-10
D20	E-32	IC221	F-10	Q523	B-10
D21	E-31	IC222	E-10	Q524	C-11
D22	C-32	IC223	C-10	Q525	G-9
D60	E-26	IC311	D-12	Q526	K-6
D61	C-27	IC321	E-9	Q527	K-8
D62	H-26	IC322	C-9	Q528	K-7
D63	C-25	IC431	E-14	Q529	K-7
D320	F-12	IC501	H-17	Q530	H-22
D321	C-27	IC502	J-19	Q531	K-4
D322	D-24	IC503	J-11	Q532	K-3
D431	B-27	IC504	G-19	Q533	B-12
D432	G-14	IC505	K-3	Q534	B-11
D433	E-14	IC506	I-13	Q535	I-6
D434	D-16				
D501	I-11	Q1	E-27		
D502	I-13	Q2	G-27		
D503	B-12	Q3	H-1		
D504	J-11	Q4	I-3		
D505	C-6	Q10	F-32		
D506	I-11	Q11	B-31		
D507	I-12	Q12	C-31		
D508	J-17	Q13	B-32		
D509	K-6	Q20	E-32		
D510	K-26	Q21	C-31		
D511	K-25	Q23	C-32		
D512	K-24	Q60	D-3		
D513	B-16	Q61	C-4		
D514	B-16	Q62	C-4		
D515	J-8	Q63	D-7		
D516	G-20	Q121	C-7		
D517	G-10	Q122	B-7		
D518	G-10	Q124	C-5		
D519	F-11	Q221	C-10		
D520	B-12	Q222	B-8		
D521	B-21	Q224	C-5		
D522	G-22	Q311	F-11		
D523	G-21	Q431	B-27		
D524	K-23	Q432	C-3		
D525	C-6	Q433	E-14		
D526	C-6	Q434	F-14		
D527	K-31	Q501	F-14		
D528	K-33	Q502	J-17		
D529	K-27	Q503	I-11		
D530	K-4	Q504	J-13		
D531	I-16	Q505	H-14		
D532	C-6	Q506	K-24		
D533	C-19	Q507	H-19		
D534	G-22	Q508	H-20		
D535	B-3	Q509	K-25		
D536	K-25	Q510	J-13		
D537	H-24	Q511	I-21		
		Q512	K-8		
IC1	J-3	Q513	B-12		
IC10	G-31	Q514	G-23		
IC11	B-31	Q515	H-23		
IC20	D-31	Q516	D-6		
IC42	J-9	Q517	J-11		

3-4. PRINTED WIRING BOARDS —MAIN, DIVER, RST SECTION—

• Refer to page49 for Semicoductor Lead Layouts.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A
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D
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G
H
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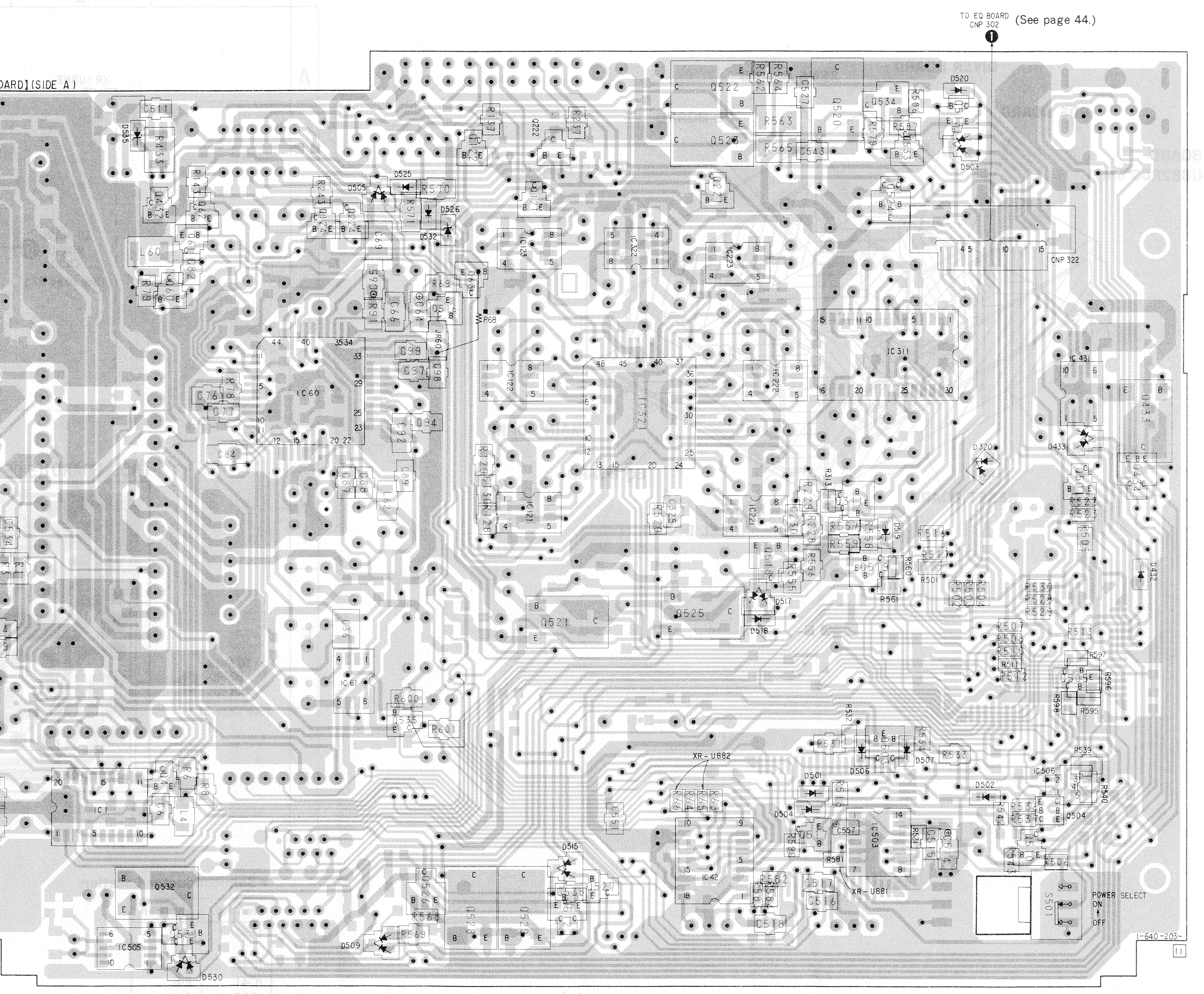
J
K
[MAIN BOARD] (SIDE A)
Q522
Q523
Q520
Q534
R563
R565
C543
R137
R237
D535
R433
D525
D505
R570
D526
D532
Q432
L60
IC60
IC61
IC1
IC42
IC123
IC322
IC223
IC311
IC122
IC321
IC222
IC121
IC221
Q521
Q525
D517
D516
R561
XR-U882
XR-U881
D501
D506
D504
IC503
D515
Q532
IC505
D530
D509
Q526
Q527
R569
04

Note:
- ○—— : parts extracted from the component side.
- —— : parts extracted from the conductor side.
- ■ : parts mounted on the conductor side.
- ● : Through hole.
- ▨ : Pattern on the side which is seen.
- ▨ : Pattern of the rear side.

D WIRING BOARDS —MAIN, DIVER, RST SECTION—

● Refer to page49 for Semicoductor Lead Layouts.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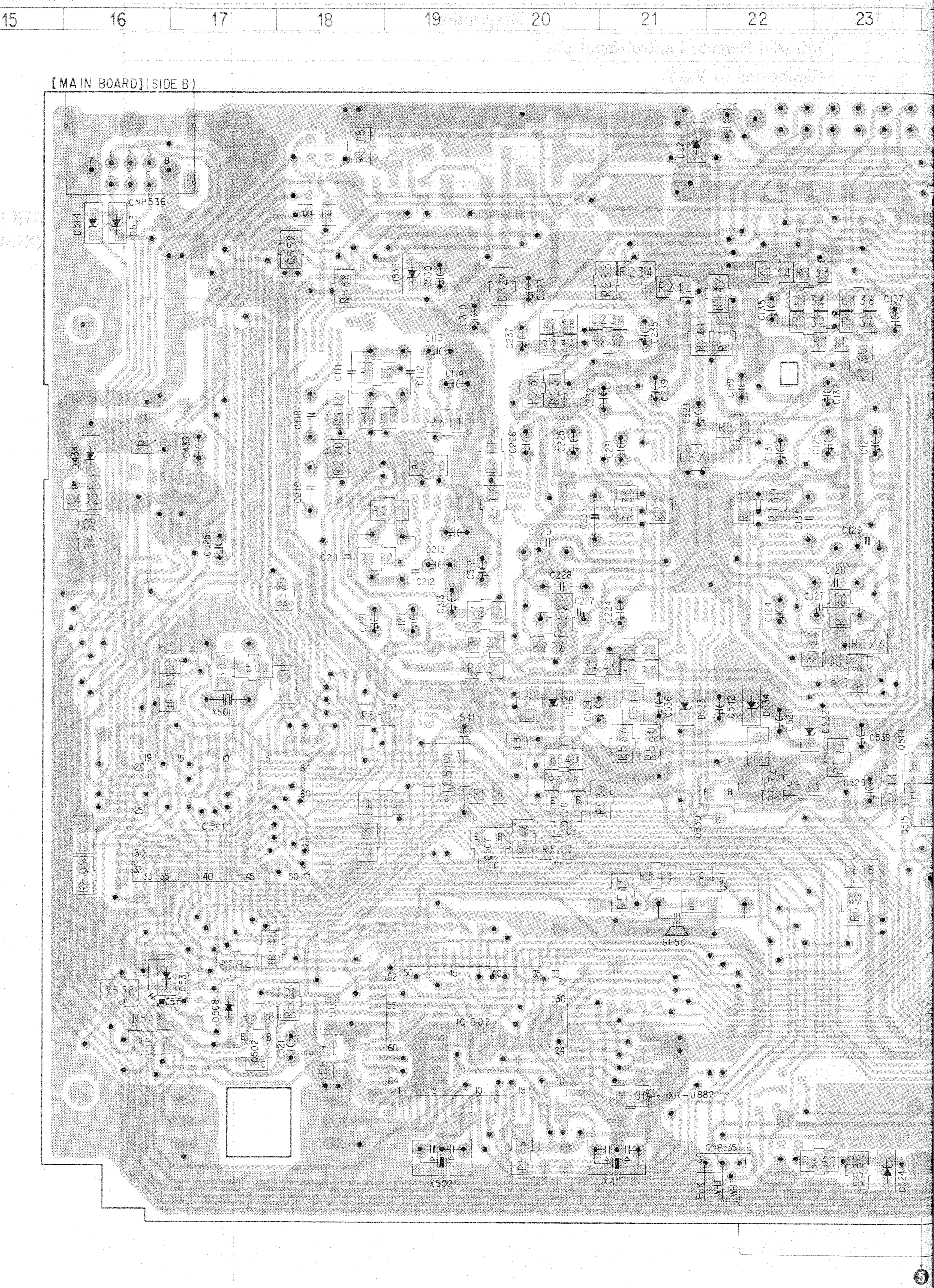
14
TO EQ BOARD CNP 302 (See page 44.)
❶
ARD] (SIDE A)
CNP 322
IC 60
IC 311
IC 321
IC 431
IC 1
IC 42
IC 505
IC 503
Q522
Q523
Q520
Q521
Q525
Q532
D503
D520
D320
D433
D509
D515
D530
XR-U882
XR-U881
S501
POWER SELECT
ON
OFF
1-640-203-


15
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22
23
[MAIN BOARD] (SIDE B)
CNP536
IC 501
IC 502
X501
X502
X41
SP501
JR500
XR-U882
CNP535
BLK
WHT
WHT
❺
TO RDS BO
CNB4
(See pag

ote:

○—— : parts extracted from the component side.

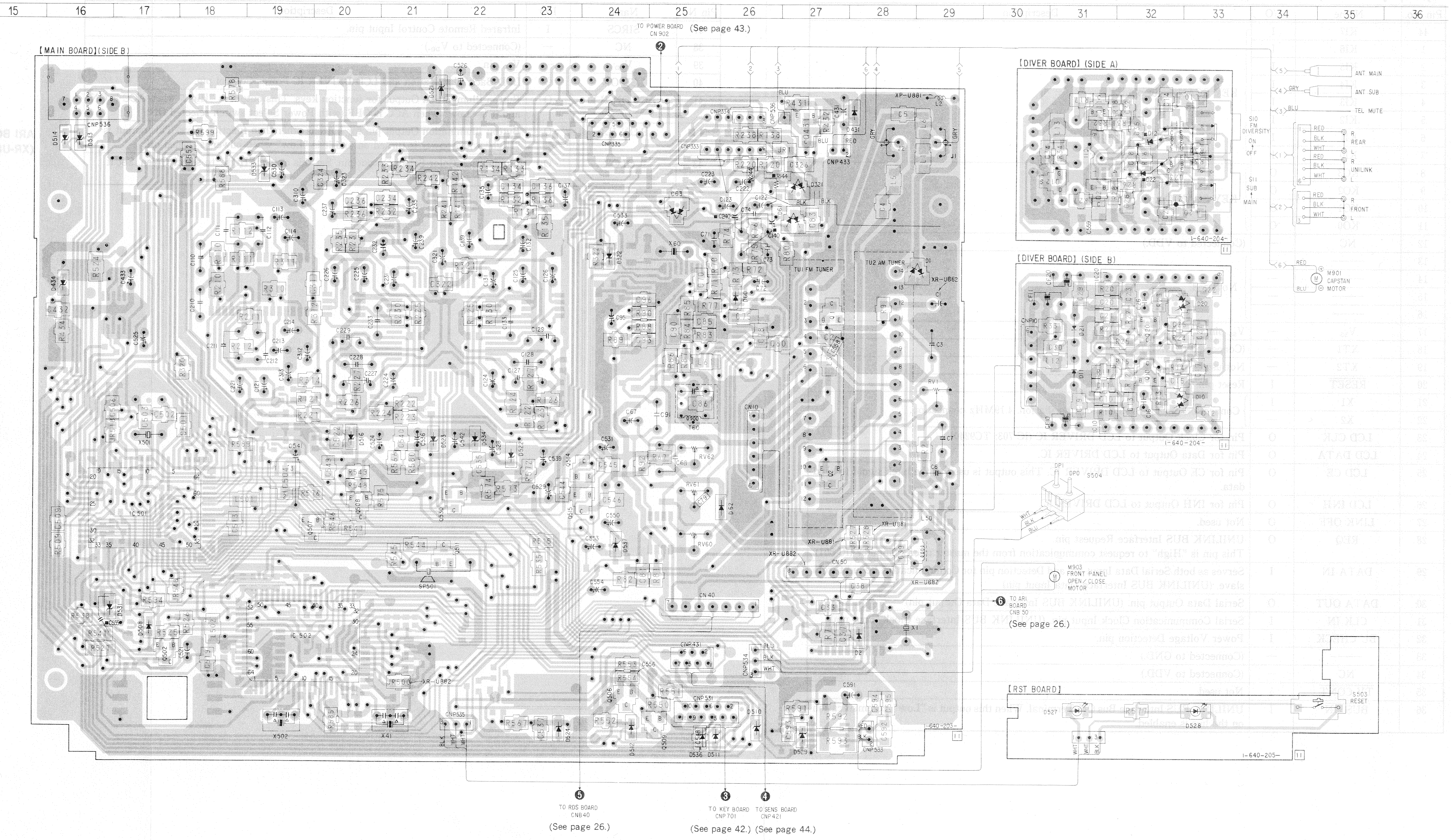
—— : parts extracted from the conductor side.

■ : parts mounted on the conductor side.

● : Through hole.

▨ : Pattern on the side which is seen.

▨ : Pattern of the rear side.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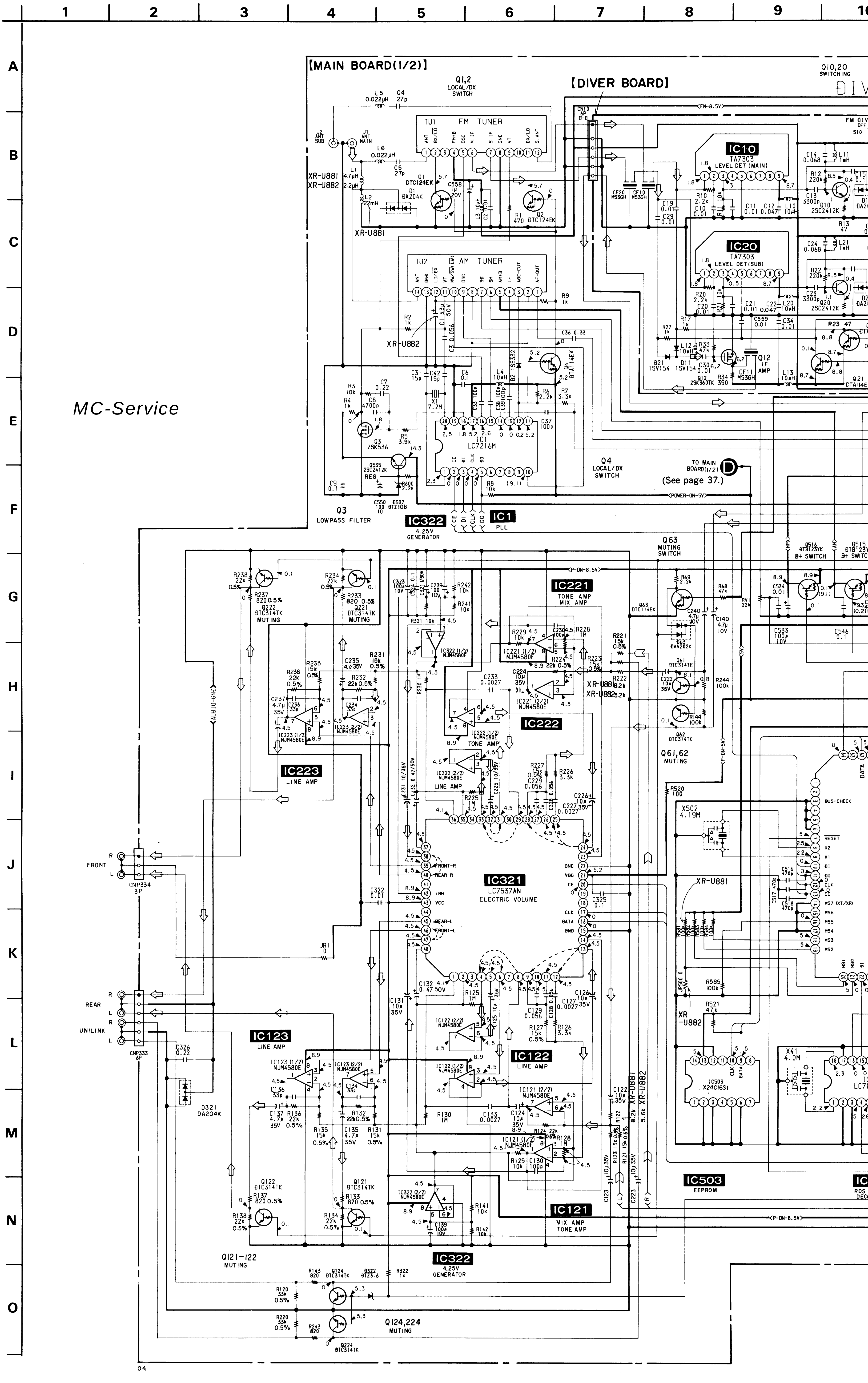
36
【MAIN BOARD】(SIDE B)
❷ TO POWER BOARD CN 902 (See page 43.)
【DIVER BOARD】(SIDE A)
【DIVER BOARD】(SIDE B)
【RST BOARD】
ANT MAIN
ANT SUB
TEL MUTE
REAR
UNILINK
FRONT
S10 FM DIVERSITY ON OFF
S11 SUB MAIN
M901 CAPSTAN MOTOR
M903 FRONT PANEL OPEN / CLOSE MOTOR
S504
S503 RESET
TU1 FM TUNER
TU2 AM TUNER
IC501
IC502
CN40
CN50
CN10
CNP536
CNP335
CNP334
CNP333
CNP433
CNP431
CNP531
CNP534
CNP535
CNP533
X501
X502
X41
X60
SP501
XR-U881
XR-U882
1-640-203-
1-640-204-
1-640-205-
❻ TO ARI BOARD CNB 50 (See page 26.)
❺ TO RDS BOARD CNB40 (See page 26.)
❸ TO KEY BOARD CNP701 (See page 42.)
❹ TO SENS BOARD CNP421 (See page 44.)

3-5. SCHEMATIC DIAGRAM —MAIN (1/2), DIVER, ARI, RDS, RST SECTION—

• Refer to page50 for IC Block Diagrams.



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H
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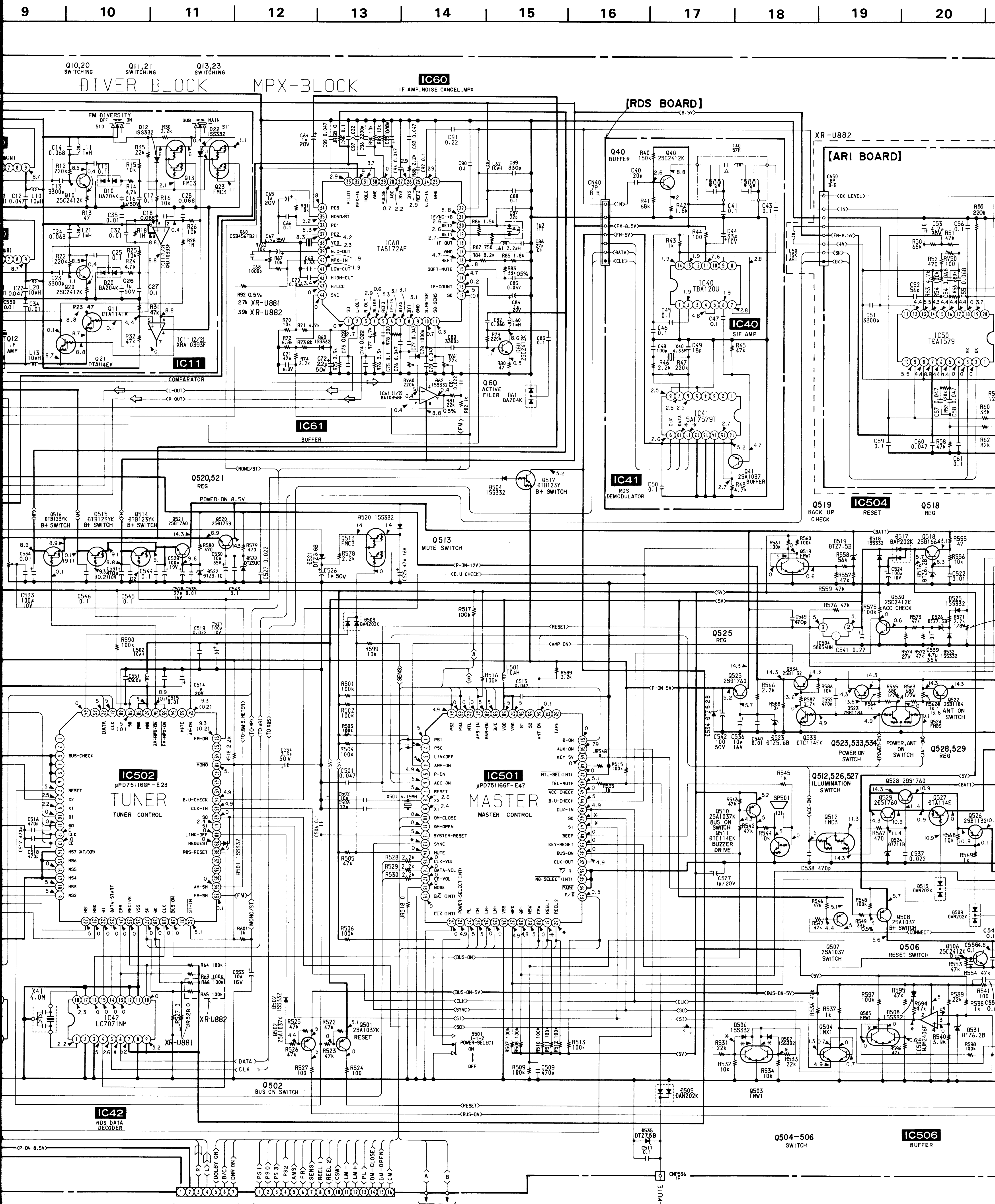
J
K
L
M
N
O
[MAIN BOARD(1/2)]
[DIVER BOARD]
TU1 FM TUNER
TU2 AM TUNER
Q1,2 LOCAL/DX SWITCH
IC10 TA7303 LEVEL DET (MAIN)
IC20 TA7303 LEVEL DET(SUB)
Q10,20 SWITCHING
Q3 LOWPASS FILTER
IC322 4.25V GENERATOR
IC1 PLL
IC1 LC7216M
Q4 LOCAL/DX SWITCH
TO MAIN BOARD(1/2) D
(See page 37.)
Q63 MUTING SWITCH
Q516 B+ SWITCH
Q515 B+ SWITCH
IC221 TONE AMP MIX AMP
IC222 TONE AMP
IC223 LINE AMP
Q61,62 MUTING
IC321 LC7537AN ELECTRIC VOLUME
X502 4.19M
FRONT
CNP334 3P
REAR
UNILINK
CNP333 6P
D321 DA204K
IC123 LINE AMP
IC122 LINE AMP
IC121 MIX AMP TONE AMP
Q121-122 MUTING
Q124,224 MUTING
IC322 4.25V GENERATOR
IC503 X24C16SI
IC503 EEPROM
X41 4.0M
XR-U881
XR-U882


9
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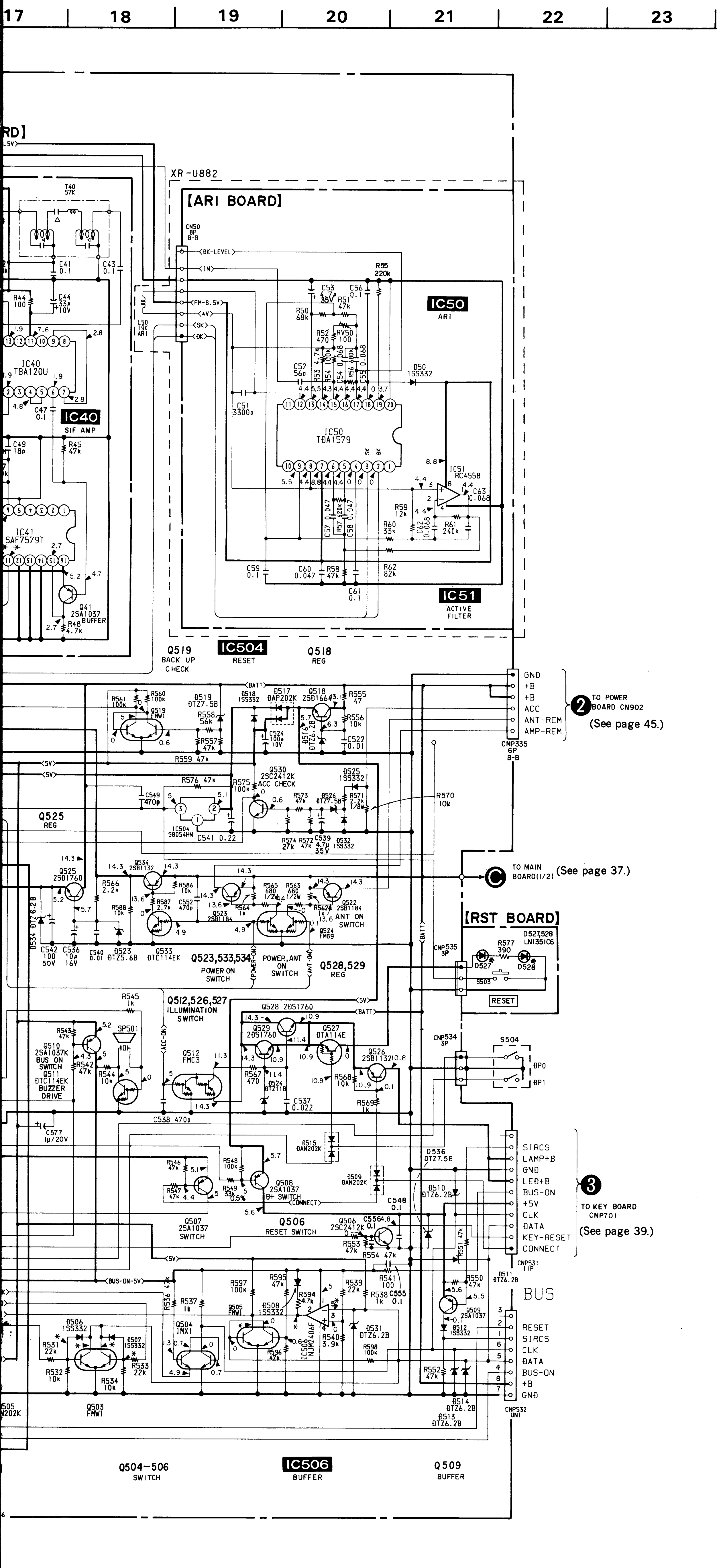
12
13
14
15
16
17
18
19
20
Q10,20 SWITCHING
Q11,21 SWITCHING
Q13,23 SWITCHING
DIVER-BLOCK
MPX-BLOCK
IC60
IF AMP, NOISE CANCEL, MPX
IC60 TA8172AF
FM DIVERSITY OFF ON S10
IC11
COMPARATOR
IC11 (2/2) XRA10393F
IC61
BUFFER
Q60 ACTIVE FILTER
R92 0.5% 27k XR-U881 39k XR-U882
[RDS BOARD]
Q40 BUFFER
IC40 TBA120U
IC40 SIF AMP
IC41 SAF7579T
IC41 RDS DEMODULATOR
Q41 2SA1037 BUFFER
XR-U882
[ARI BOARD]
IC50 TDA1579
Q519 BACK UP CHECK
IC504 RESET
Q518 REG
Q520,521 REG
Q516 DTB123YK B+ SWITCH
Q515 DTB123YK B+ SWITCH
Q514 DTB123YK B+ SWITCH
Q513 MUTE SWITCH
Q517 DTB123Y B+ SWITCH
POWER-ON-8.5V
Q525 REG
Q523,533,534 POWER ON SWITCH
POWER, ANT ON SWITCH
Q528,529 REG
Q512,526,527 ILLUMINATION SWITCH
Q510 2SA1037K BUS ON SWITCH
Q511 DTC114EK BUZZER DRIVE
SP501
IC502 μPD75116GF-E23
TUNER
TUNER CONTROL
IC501 μPD75116GF-E47
MASTER
MASTER CONTROL
X501 4.19MHz
IC42 LC7071NM
X41 4.0M
XR-U882
XR-U881
IC42 RDS DATA DECODER
Q501 2SA1037K RESET
Q502 BUS ON SWITCH
S501 POWER-SELECT ON OFF
Q506 RESET SWITCH
Q507 2SA1037 SWITCH
Q508 2SA1037 B+ SWITCH
Q504-506 SWITCH
IC506 BUFFER
Q503 FMW1
D505 DAN202K
CNP536 1P
TEL-MUTE
R
L
DOLBY ON
B/C
DNR ON
PS1
PS0
PS3
AMS
F/R
SENS
REEL 1
REEL 2
CSW
LM+
LM-
PL
DM-CLOSE
DM-OPEN
CM
A
B
Ⓐ TO MAIN BOARD (1/2) (See page 37.)
Ⓑ TO MAIN BOARD (1/2) (See page 37.)
Ⓒ TO MAIN BOARD (1/2) (See page 37.)


17
18
19
20
21
22
23
XR-U882
[ARI BOARD]
IC50 ARI
IC50 TDA1579
IC51 RC4558
IC51 ACTIVE FILTER
IC40 TBA120U
IC40 SIF AMP
IC41 SAF7579T
Q41 2SA1037 BUFFER
Q519 BACK UP CHECK
IC504 RESET
Q518 REG
Q525 REG
Q523,533,534 POWER ON SWITCH
POWER, ANT ON SWITCH
Q528,529 REG
Q512,526,527 ILLUMINATION SWITCH
Q510 2SA1037K BUS ON SWITCH
Q511 DTC114EK BUZZER DRIVE
Q507 2SA1037 SWITCH
Q506 RESET SWITCH
Q508 2SA1037 B+ SWITCH
Q504-506 SWITCH
IC506 BUFFER
Q509 BUFFER
GND
+B
+B
ACC
ANT-REM
AMP-REM
CNP335 6P B-B
TO POWER BOARD CN902
(See page 45.)
TO MAIN BOARD(1/2)
(See page 37.)
[RST BOARD]
D527,528 LN135IC6
RESET
S504
DP0
DP1
SIRCS
LAMP+B
GND
LED+B
BUS-ON
+5V
CLK
DATA
KEY-RESET
CONNECT
TO KEY BOARD CNP701
(See page 39.)
CNP531 11P
BUS
RESET
SIRCS
CLK
DATA
BUS-ON
+B
GND
CNP532 UNI

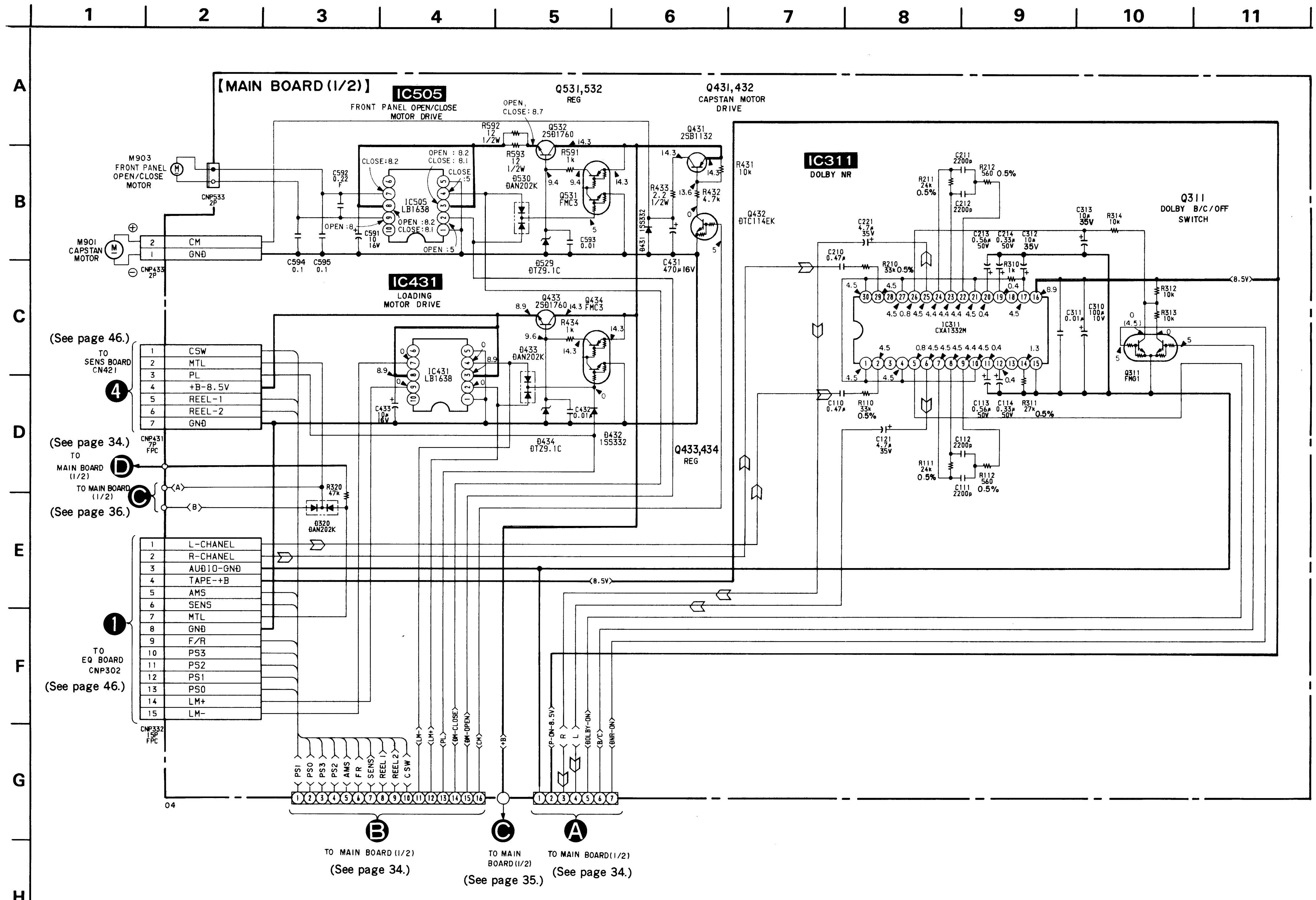
Note:

- All capacitors are in µF unless otherwise noted. pF: µµF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $^1/_4$W or less unless otherwise specified.
- % : indicates tolerance.
- △ : internal component.
- ━━ : B+ Line
- ▭ : adjustment for repair.
- Power voltage is dc 14.4V and fed with regulated dc power supply from BAT and ACC terminals.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM or PB
  ( ) : MW
  ✱ : Impossible to measure the voltage at the marked points.
- Voltages are taken with a VOM (Input Impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : FM ⊳ : PB

MC-Service

3-6. SCHEMATIC DIAGRAM —MAIN (1/2) SECTION—

• Refer to page50 for IC Block Diagrams.


1
2
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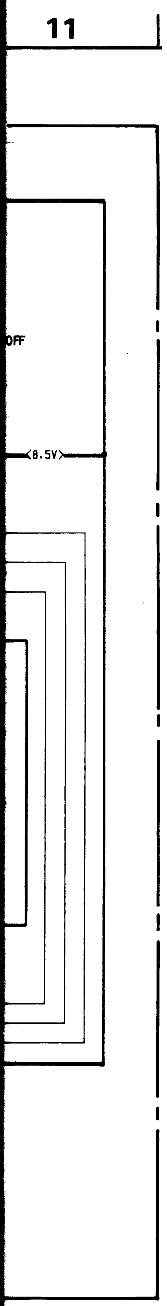
7
8
9
10
11
A
B
C
D
E
F
G
H
[MAIN BOARD (1/2)]
IC505
FRONT PANEL OPEN/CLOSE MOTOR DRIVE
Q531,532 REG
Q431,432 CAPSTAN MOTOR DRIVE
IC311 DOLBY NR
Q311 DOLBY B/C/OFF SWITCH
IC431 LOADING MOTOR DRIVE
Q433,434 REG
M903 FRONT PANEL OPEN/CLOSE MOTOR
M901 CAPSTAN MOTOR
CNP533 2P
CNP433 2P
CM
GND
IC505 LB1638
IC431 LB1638
IC311 CXA1332M
(See page 46.)
TO SENS BOARD CN421
CSW
MTL
PL
+B-8.5V
REEL-1
REEL-2
GND
CNP431 7P FPC
(See page 34.)
TO MAIN BOARD (1/2)
TO MAIN BOARD (1/2)
(See page 36.)
L-CHANEL
R-CHANEL
AUDIO-GND
TAPE-+B
AMS
SENS
MTL
GND
F/R
PS3
PS2
PS1
PS0
LM+
LM-
TO EQ BOARD CNP302
(See page 46.)
CNP332 15P FPC
PS1
PS0
PS3
PS2
AMS
FR
SENS
REEL 1
REEL 2
CSW
LM+
LM+
PL
OH-CLOSE
OH-OPEN
CM
+B
P-ON-8.5V
R
L
BOLBY-ON
B/C
BNR-ON
TO MAIN BOARD (1/2)
(See page 34.)
TO MAIN BOARD (1/2)
(See page 35.)
TO MAIN BOARD (1/2)
(See page 34.)
(8.5V)

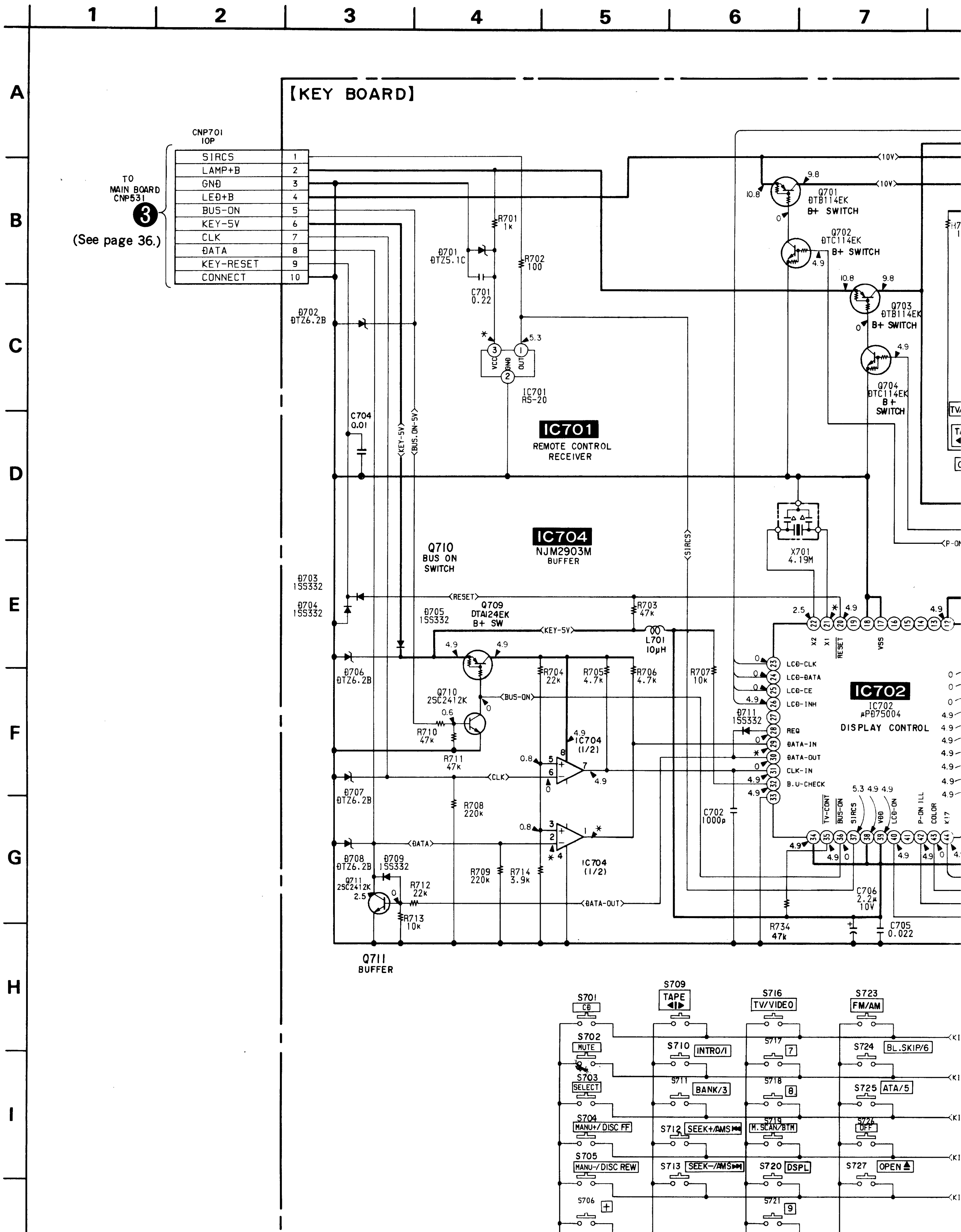
Note:

- All capacitors are in µF unless otherwise noted. pF: µµF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¹/₄W or less unless otherwise specified.
- % : indicates tolerance.
- △ : internal component.
- ▬ : B+ Line
- Power voltage is dc 14.4V and fed with regulated dc power supply from BAT and ACC terminals.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM or PB
  ✳ : Impossible to measure the voltage at the marked points.
- Voltages are taken with a VOM (Input Impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⊃ : PB



3-7. SCHEMATIC DIAGRAM —KEY SECTION—

• Refer to page50 for IC Block Diagrams.


1
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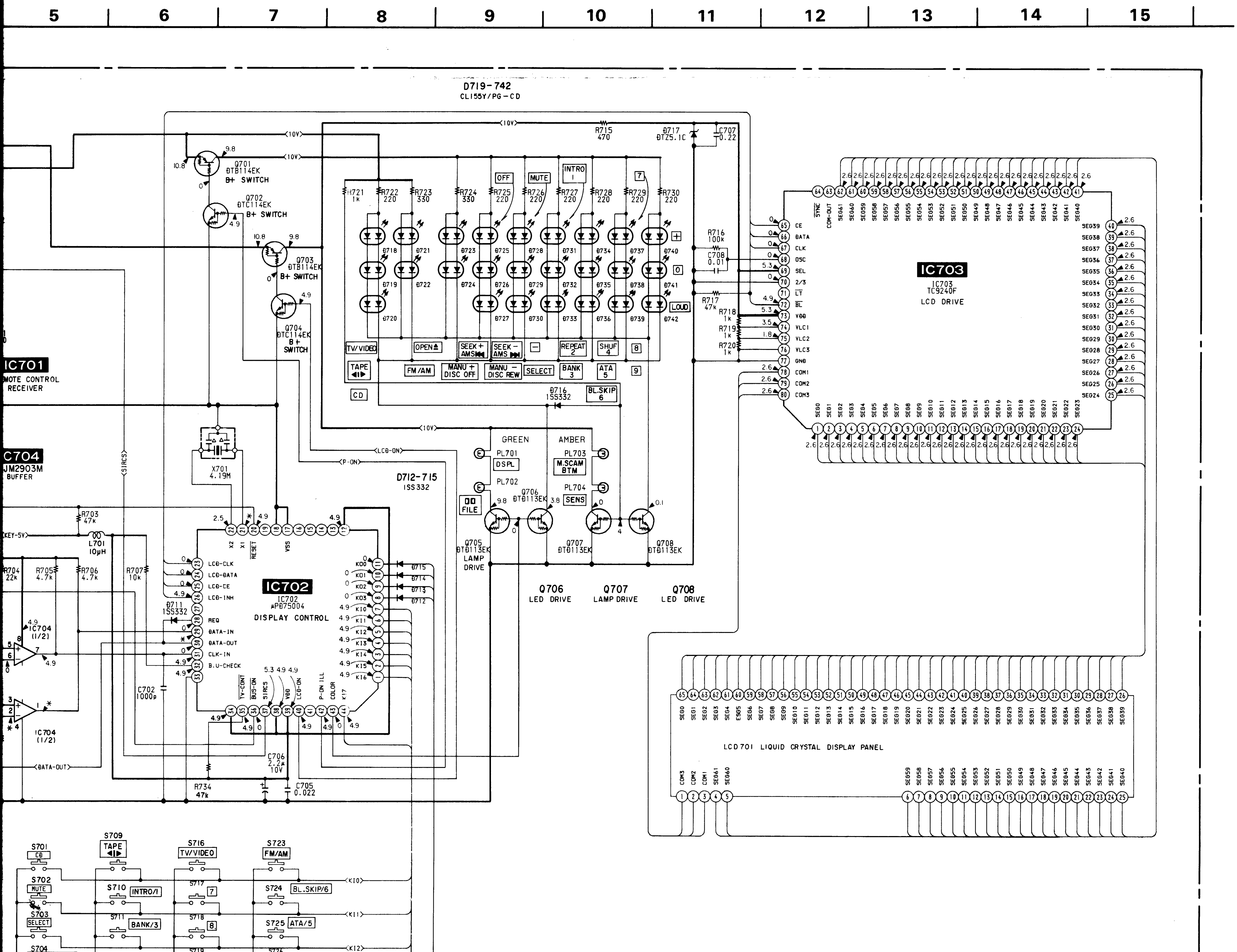
7
A
B
C
D
E
F
G
H
I
J
K
[KEY BOARD]
CNP701
10P
TO
MAIN BOARD
CNP531
3
(See page 36.)
SIRCS
LAMP+B
GND
LED+B
BUS-ON
KEY-5V
CLK
DATA
KEY-RESET
CONNECT
Q701
DTB114EK
B+ SWITCH
Q702
DTC114EK
B+ SWITCH
Q703
DTB114EK
B+ SWITCH
Q704
DTC114EK
B+
SWITCH
R701
1k
R702
100
D701
DTZ5.1C
C701
0.22
D702
DTZ6.2B
IC701
RS-20
IC701
REMOTE CONTROL
RECEIVER
C704
0.01
<KEY-5V>
<BUS-ON-5V>
<SIRCS>
X701
4.19M
IC704
NJM2903M
BUFFER
Q710
BUS ON
SWITCH
D703
1SS332
D704
1SS332
D705
1SS332
Q709
DTA124EK
B+ SW
R703
47k
L701
10μH
R704
22k
R705
4.7k
R706
4.7k
R707
10k
D706
DTZ6.2B
Q710
2SC2412K
R710
47k
R711
47k
D707
DTZ6.2B
R708
220k
IC704
(1/2)
D711
1SS332
IC702
IC702
μPD75004
DISPLAY CONTROL
LCD-CLK
LCD-DATA
LCD-CE
LCD-INH
REQ
DATA-IN
DATA-OUT
CLK-IN
B.U-CHECK
C702
1000p
C706
2.2μ
10V
R734
47k
C705
0.022
D708
DTZ6.2B
D709
1SS332
Q711
2SC2412K
R712
22k
R713
10k
R709
220k
R714
3.9k
<RESET>
<KEY-5V>
<BUS-ON>
<CLK>
<DATA>
<DATA-OUT>
<10V>
<P-ON>
Q711
BUFFER
S701
CD
S702
MUTE
S703
SELECT
S704
MANU+/DISC FF
S705
MANU-/DISC REW
S706
+
S707
−
S708
LOUD
S709
TAPE
S710
INTRO/I
S711
BANK/3
S712
SEEK+/AMS
S713
SEEK−/AMS
S714
REPEAT/2
S715
0
S716
TV/VIDEO
S717
7
S718
8
S719
M.SCAN/BTM
S720
DSPL
S721
9
S722
D.FILE
S723
FM/AM
S724
BL.SKIP/6
S725
ATA/5
S726
OFF
S727
OPEN
S728
SHUF/4
S729
SENS
<KI
<KO0>
<KO1>
<KO2>
<KO3>
MC-Service
04

Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- % : indicates tolerance.
- △ : internal component.
- ▬ : B+ Line
- Power voltage is dc 14.4V and fed with regulated dc power supply from BAT and ACC terminals.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM or PB
  ✱ : Impossible to measure the voltage at the marked points.
- Voltages are taken with a VOM (Input Impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.

to page50 for IC Block Diagrams.



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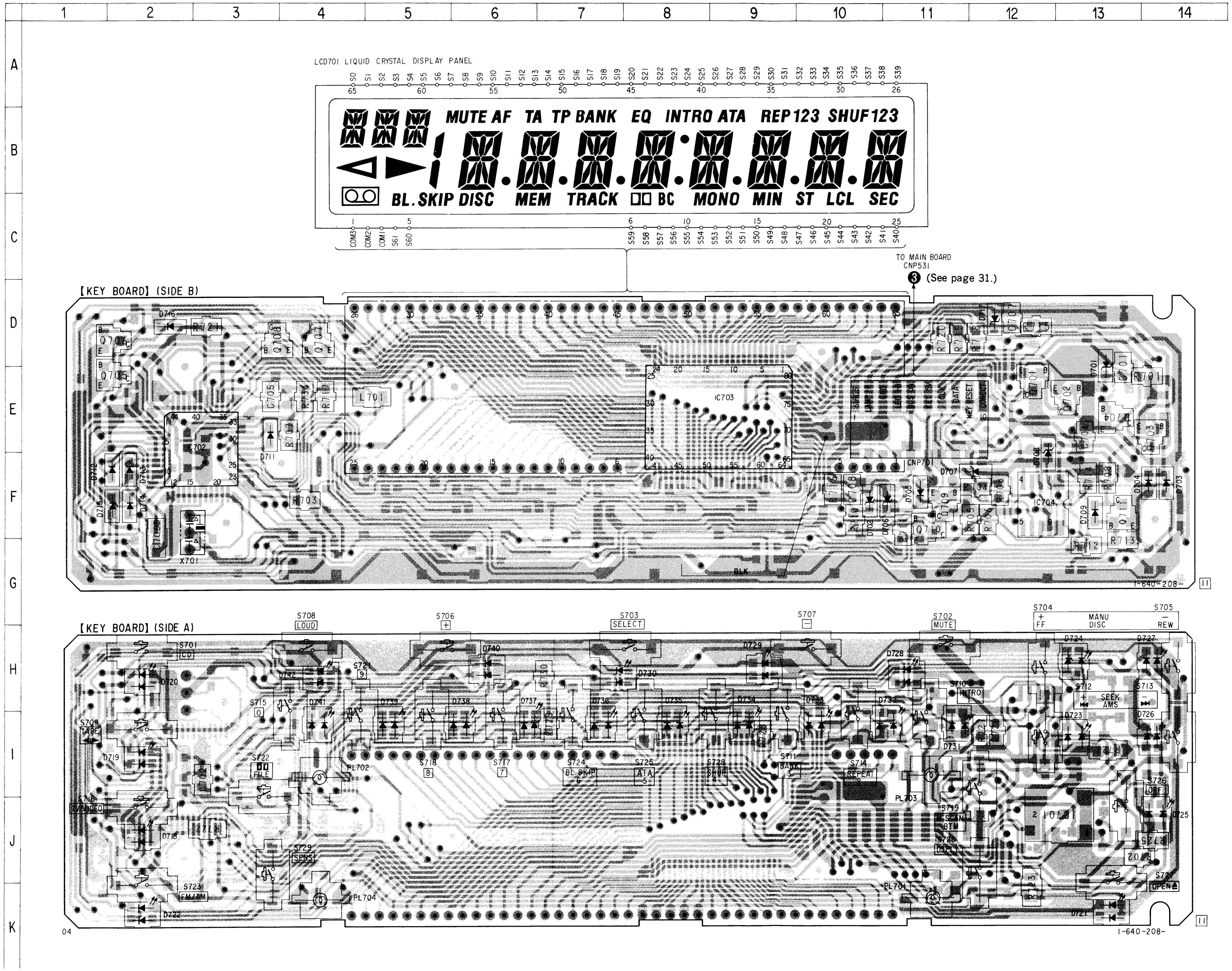
12
13
14
15
D719-742
CL155Y/PG-CD
R715 470
D717 DTZ5.1C
C707 0.22
Q701 DTB114EK B+ SWITCH
Q702 DTC114EK B+ SWITCH
Q703 DTB114EK B+ SWITCH
Q704 DTC114EK B+ SWITCH
R721 1k
R722 220
R723 330
R724 330
R725 220
R726 220
R727 220
R728 220
R729 220
R730 220
OFF
MUTE
INTRO I
7
0
LOUD
TV/VIDEO
OPEN▲
SEEK+ AMS
SEEK− AMS
−
REPEAT 2
SHUF 4
8
TAPE
FM/AM
MANU+ DISC OFF
MANU− DISC REW
SELECT
BANK 3
ATA 5
9
CD
D716 1SS332
BL.SKIP 6
R716 100k
C708 0.01
R717 47k
R718 1k
R719 1k
R720 1k
IC703
IC703 TC9240F LCD DRIVE
CE
DATA
CLK
OSC
SEL
2/3
LT
BL
VDD
VLC1
VLC2
VLC3
GND
COM1
COM2
COM3
SYNC
COM-OUT
IC701
REMOTE CONTROL RECEIVER
IC704
NJM2903M BUFFER
X701 4.19M
GREEN
AMBER
PL701 DSPL
PL702
PL703 M.SCAN BTM
PL704 SENS
FILE
Q705 DTB113EK LAMP DRIVE
Q706 DTB113EK
Q707 DTB113EK
Q708 DTB113EK
D712-715 1SS332
Q706 LED DRIVE
Q707 LAMP DRIVE
Q708 LED DRIVE
R703 47k
L701 10μH
R704 22k
R705 4.7k
R706 4.7k
R707 10k
D711 1SS332
IC702
IC702 μPD75004 DISPLAY CONTROL
LCD-CLK
LCD-DATA
LCD-CE
LCD-INH
REQ
DATA-IN
DATA-OUT
CLK-IN
B.U-CHECK
RESET
VSS
TV-CONT
BUS-ON
SIRCS
VDD
LCD-ON
P-ON ILL
COLOR
K17
C702 1000p
IC704 (1/2)
C706 2.2μ 10V
R734 47k
C705 0.022
LCD701 LIQUID CRYSTAL DISPLAY PANEL
S701 CD
S702 MUTE
S703 SELECT
S704 MANU+/DISC FF
S705 MANU−/DISC REW
S706 +
S707 −
S708 LOUD
S709 TAPE
S710 INTRO/I
S711 BANK/3
S712 SEEK+/AMS
S713 SEEK−/AMS
S714 REPEAT/2
S715 0
S716 TV/VIDEO
S717 7
S718 8
S719 M.SCAN/BTM
S720 DSPL
S721 9
S722 FILE
S723 FM/AM
S724 BL.SKIP/6
S725 ATA/5
S726 OFF
S727 OPEN▲
S728 SHUF/4
S729 SENS
K00
K01
K02
K03
K10
K11
K12
K13
K14
K15
K16
K17

3-8. PRINTED WIRING BOARD —KEY SECTION—

- Refer to page49 for Semicoduductor Lead Layouts.



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11
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14
A
B
C
D
E
F
G
H
I
J
K
LCD701 LIQUID CRYSTAL DISPLAY PANEL
MUTE AF TA TP BANK EQ INTRO ATA REP123 SHUF123
BL.SKIP DISC MEM TRACK BC MONO MIN ST LCL SEC
TO MAIN BOARD
CNP531
❸ (See page 31.)
[KEY BOARD] (SIDE B)
IC702
IC703
IC704
CNP701
L701
X701
BLK
1-640-208-11
[KEY BOARD] (SIDE A)
S708 LOUD
S706 +
S703 SELECT
S707 −
S702 MUTE
S704 + FF
MANU DISC
S705 − REW
S701 CD
S709 TAPE
S715 0
S721 9
S722 FILE
S718 8
S717 7
S724 BL.SKIP 6
S725 ATA 5
S728 SHUF
S711 BANK
S714 REPEAT
S710 INTRO
S712 SEEK AMS
S713
S719 SCAN BTM
S720 DSPL
S716 VIDEO
S729 SENS
S723 FM/AM
S726 OFF
S727 OPEN
PL701
PL702
PL703
PL704
04
1-640-208-

MC-Service

• Semiconductor Location

Ref. No.	Location
D701	E-13
D702	F-10
D703	F-14
D704	F-14
D705	F-11
D706	F-11
D707	F-11
D708	F-12
D709	F-13
D711	E-3
D712	F-2
D713	F-2
D714	F-2
D715	F-2
D716	D-2
D717	D-12
D718	J-2
D719	H-2
D720	H-2
D721	K-13
D722	K-2
D723	I-13
D724	H-13
D725	J-14
D726	I-14
D727	H-14
D728	H-11
D729	H-9
D730	H-7
D731	I-11
D732	I-11
D733	I-10
D734	I-8
D735	I-8
D736	I-7
D737	I-6
D738	I-6
D739	I-5
D740	H-6
D741	I-4
D742	H-4
IC701	K-12
IC702	E-3
IC703	E-9
IC704	F-12
Q701	E-12
Q702	E-13
Q703	E-14
Q704	E-13
Q705	E-2
Q706	D-2
Q707	D-4
Q708	D-3
Q709	F-11
Q710	F-11
Q711	F-13

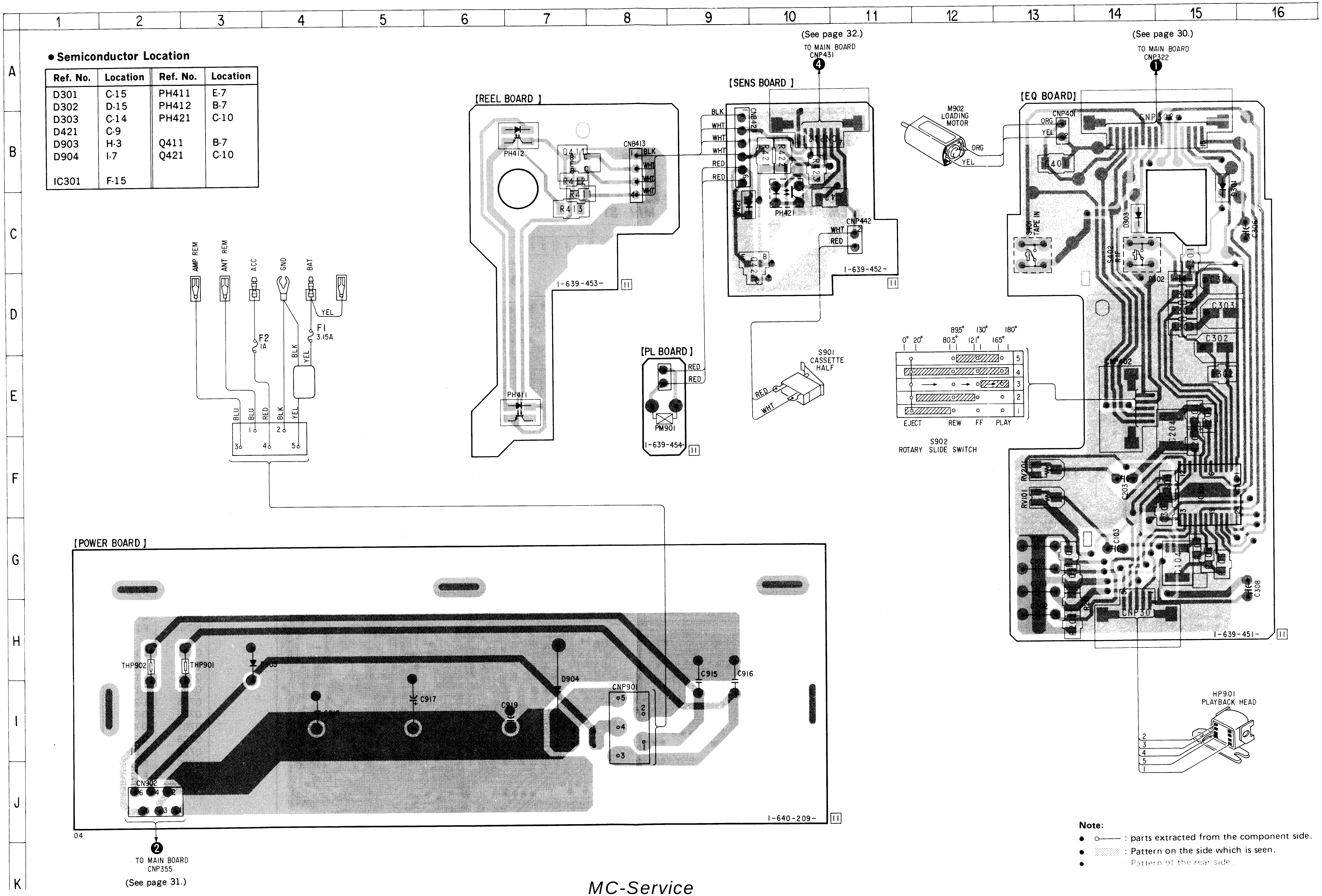
Note:
- ——— : parts extracted from the conductor side.
- ▨ : Pattern on the side which is seen.
- ░ : Pattern of the rear side.

3-9. PRINTED WIRING BOARDS —MD, POWER SECTION—

- Refer to page49 for Semiconductor Lead Layouts.

- **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location
D301	C-15	PH411	E-7
D302	D-15	PH412	B-7
D303	C-14	PH421	C-10
D421	C-9		
D903	H-3	Q411	B-7
D904	I-7	Q421	C-10
IC301	F-15		


1
2
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4
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6
7
8
9
10
11
12
13
14
15
16
A
B
C
D
E
F
G
H
I
J
K
(See page 32.)
TO MAIN BOARD
CNP431
4
(See page 30.)
TO MAIN BOARD
CNP322
1
[SENS BOARD]
[REEL BOARD]
[EQ BOARD]
[PL BOARD]
[POWER BOARD]
PH412
Q411
R412
R411
R413
CNB413
BLK
WHT
RED
CNB421
R421
R422
R423
PH421
CNP442
Q421
1-639-453-
1-639-452-
1-639-454-
1-639-451-
1-640-209-
PH411
PM901
M902
LOADING
MOTOR
ORG
YEL
CNP401
CNP302
CNP202
CNP301
S401
TAPE IN
S402
R/F
D303
D301
D302
C306
C303
C302
C304
C204
C203
C103
C308
IC301
RV201
RV101
S901
CASSETTE
HALF
895° 130° 180°
0° 20° 80.5° 121° 165°
EJECT REW FF PLAY
S902
ROTARY SLIDE SWITCH
AMP REM
ANT REM
ACC
GND
BAT
F2
1A
F1
3.15A
BLU
BLK
YEL
THP902
THP901
D903
D904
C917
C918
C919
C915
C916
CNP901
CN902
HP901
PLAYBACK HEAD
04
2
TO MAIN BOARD
CNP355
(See page 31.)

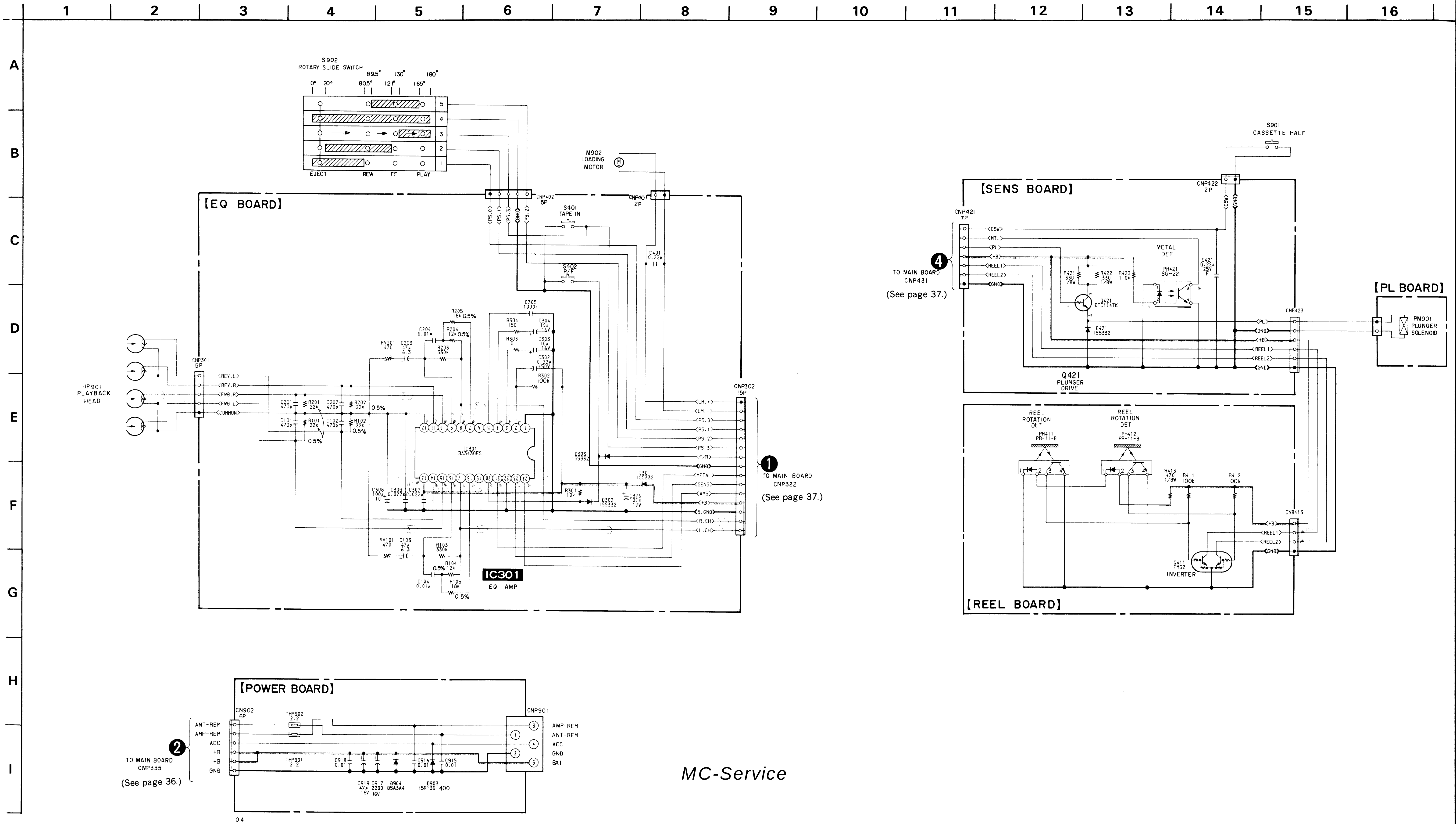
Note:

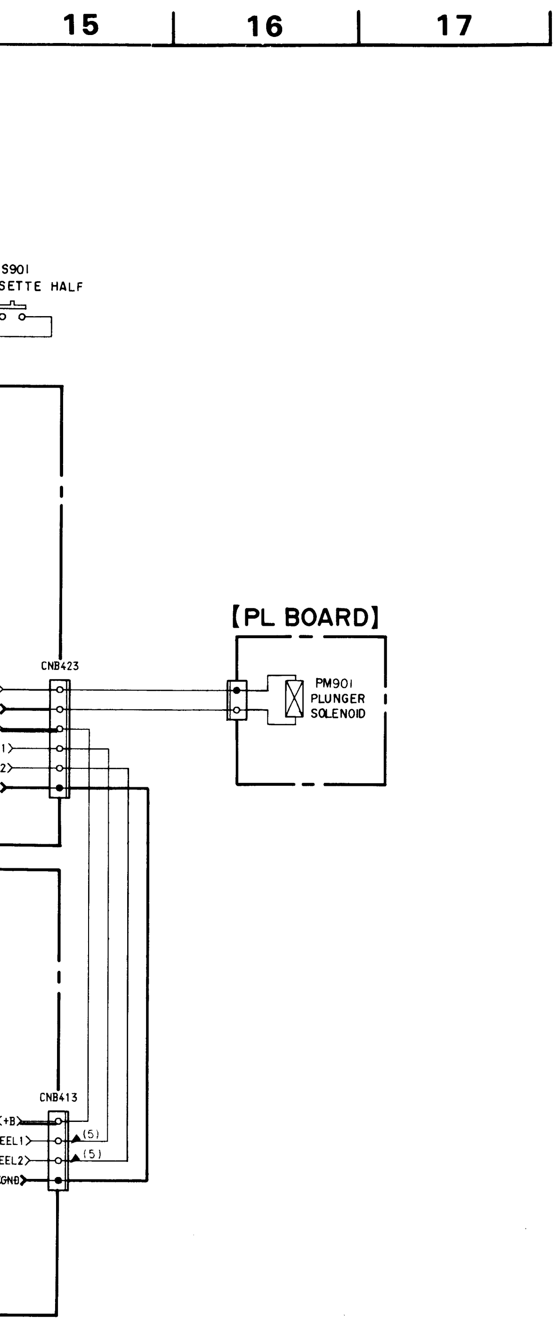
- ○—— : parts extracted from the component side.
- ▨ : Pattern on the side which is seen.
- Pattern of the rear side.

MC-Service

3-10. SCHEMATIC DIAGRAM —MD, POWER SECTION—

• Refer to Page50 for IC Block Diagrams.


1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
A
B
C
D
E
F
G
H
I
S902
ROTARY SLIDE SWITCH
0°
20°
80.5°
89.5°
121°
130°
165°
180°
EJECT
REW
FF
PLAY
M902
LOADING
MOTOR
[EQ BOARD]
CNP402
5P
CNP401
2P
S401
TAPE IN
S402
R/F
C401
0.22μ
HP901
PLAYBACK
HEAD
CNP301
5P
REV.L
REV.R
FWD.R
FWD.L
COMMON
C201 470p
R201 22k
C202 470p
R202 22k
C101 470p
R101 22k
C102 470p
R102 22k
0.5%
RV201 470
C203 47μ 6.3
C204 0.01μ
R205 18k 0.5%
R204 12k 0.5%
R203 330k
C305 1000p
R304 150
C304 10μ 16V
R303 0
C303 10μ 16V
C302 0.22μ 50V
R302 100k
IC301
BA3430FS
D303 1SS332
D301 1SS332
D302 1SS332
R301 10k
C306 10μ 10V
C308 100μ 10
C309 0.022μ
C307 0.022μ
RV101 470
C103 47μ 6.3
R103 330k
R104 12k 0.5%
C104 0.01μ
R105 18k 0.5%
IC301
EQ AMP
CNP302
15P
LM.+
LM.-
PS.0
PS.1
PS.2
PS.3
F/R
GND
METAL
SENS
AMS
+B
S.GND
R.CH
L.CH
❶
TO MAIN BOARD
CNP322
(See page 37.)
[POWER BOARD]
CN902
6P
ANT-REM
AMP-REM
ACC
+B
+B
GND
❷
TO MAIN BOARD
CNP355
(See page 36.)
THP902 2.2
THP901 2.2
C918 0.01
C919 47μ 16V
C917 2200 16V
D904 DSA3A4
C916 0.01
D903 1SR139-400
C915 0.01
CNP901
AMP-REM
ANT-REM
ACC
GND
BAT
04
S901
CASSETTE HALF
[SENS BOARD]
CNP422
2P
CSW
GND
CNP421
7P
CSW
MTL
PL
+B
REEL1
REEL2
GND
❹
TO MAIN BOARD
CNP431
(See page 37.)
METAL
DET
R421 330 1/8W
R422 330 1/8W
R423 1.0k
PH421 SG-221
C421 0.22μ 25V F
Q421 DTC114TK
D421 1SS332
Q421
PLUNGER
DRIVE
CNB423
PL
GND
+B
REEL1
REEL2
GND
[PL BOARD]
PM901
PLUNGER
SOLENOID
REEL
ROTATION
DET
PH411
PR-11-B
REEL
ROTATION
DET
PH412
PR-11-B
R413 470 1/8W
R411 100k
R412 100k
CNB413
+B
REEL1
REEL2
GND
Q411
FMG2
INVERTER
[REEL BOARD]

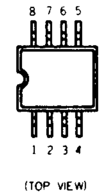

15
16
17
S901
SETTE HALF
[PL BOARD]
CNB423
PM901
PLUNGER
SOLENOID
CNB413
(5)
(5)

Note:

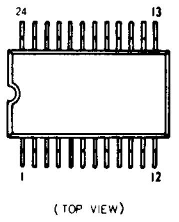
- All capacitors are in μF unless otherwise noted. pF: $\mu\mu$F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $^1/_4$W or less unless otherwise specified.
- % : indicates tolerance.
- ▬ : B+ Line
- Power voltage is dc 14.4V and fed with regulated dc power supply from BAT and ACC terminals.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : PB
  ( ) : STOP
- Signal path.
  ⊳ : PB

3-11. SEMICONDUCTOR LEAD LAYOUTS

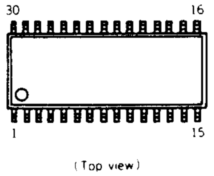
BA10358F
LM2903M
NJM4580E-D
RC4558M
XRA10393F


8 7 6 5
1 2 3 4
(TOP VIEW)

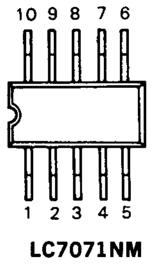
BA3430FS


24
13
1
12
(TOP VIEW)

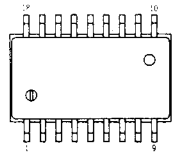
CXA1332M


30
16
1
15
(Top view)

LB1638M

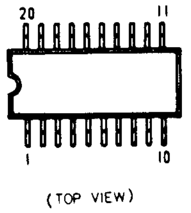

10 9 8 7 6
1 2 3 4 5

LC7071NM

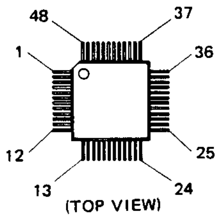


MARKING SIDE VIEW

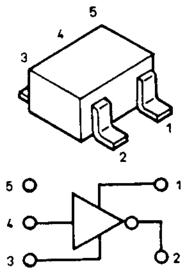
LC7216M
TDA1579T


20
11
1
10
(TOP VIEW)

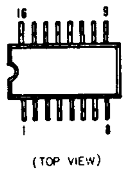
LC7537AN


48
37
1
36
12
25
13
24
(TOP VIEW)

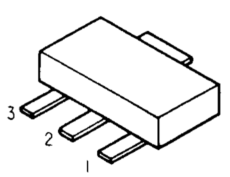
NJM2406F



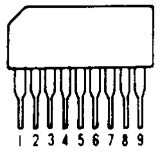
SAF7579T


16
9
1
8
(TOP VIEW)

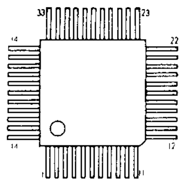
S-8054HN-CB



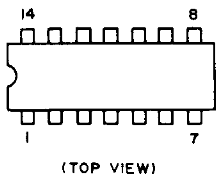
TA7303P



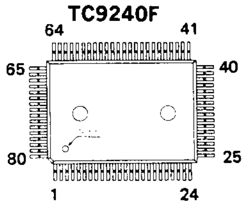
TA8172AF
µPD75008GB-632-3B4



TBA120U

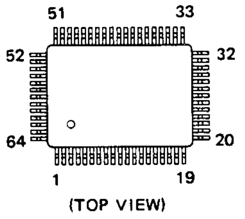

14
8
1
7
(TOP VIEW)

TC9240F

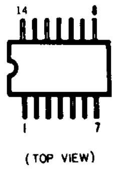

64
41
65
40
80
25
1
24

MARKING SIDE VIEW

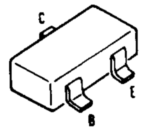
µPD75116GF-E47-3BE
µPD75116GF-E23-3BE


51
33
52
32
64
20
1
19
(TOP VIEW)

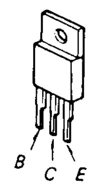
X24C16SI


14
8
1
7
(TOP VIEW)

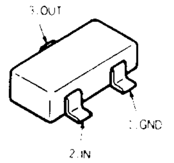
DTA114EK
DTA124EK
DTC114EK
DTC114TK
DTC124EK
DTC314TKH04
2SA1162-G
2SC1623-L5L6
2SD1759F5



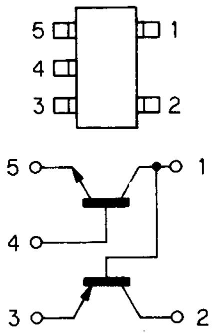
DTB114EK



DTB123YK
DTD113EK



FMC3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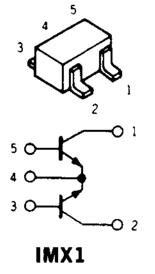
1
4
3
2
5
1
4
3
2

FMG1
FMG2
FMG9
FMW1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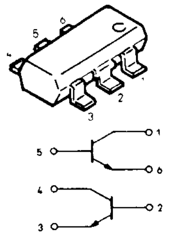
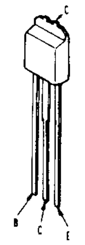
3
4
1
2
5
1
4
3
2

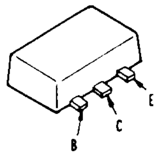
IMX1


5
4
3
1
2
5
1
4
6
3
2

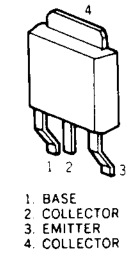
2SA1385



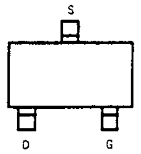
2SB1115A
2SD1615A-GB



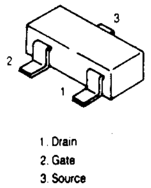
2SD1760F5-Q


4
1
2
3
1. BASE
2. COLLECTOR
3. EMITTER
4. COLLECTOR

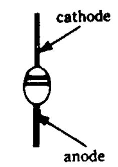
2SK360E



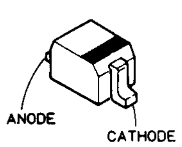
2SK536


3
2
1
1. Drain
2. Gate
3. Source

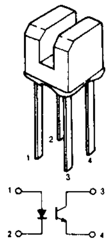
DSA3A4


cathode
anode

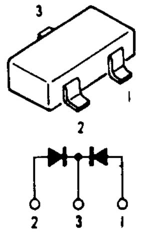
DTZ10B
DTZ11B
DTZ3.6
DTZ5.1C
DTZ5.6B
DTZ6.2B
DTZ7.5B
DTZ9.1C
1SS332


ANODE
CATHODE

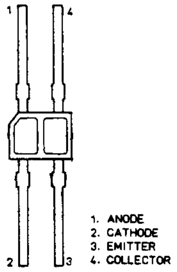
GP1S37



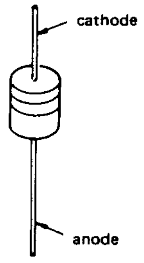
MA152WK



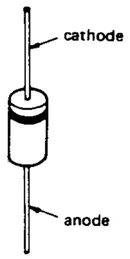
PR-11-B-T


1
4
2
3
1. ANODE
2. CATHODE
3. EMITTER
4. COLLECTOR

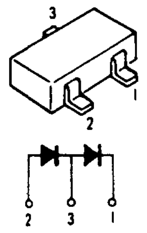
1SR139-400


cathode
anode

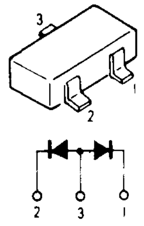
1SV154


cathode
anode

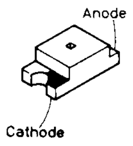
1SS226



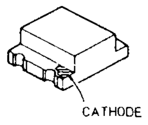
1S2836



CL-150Y-CD

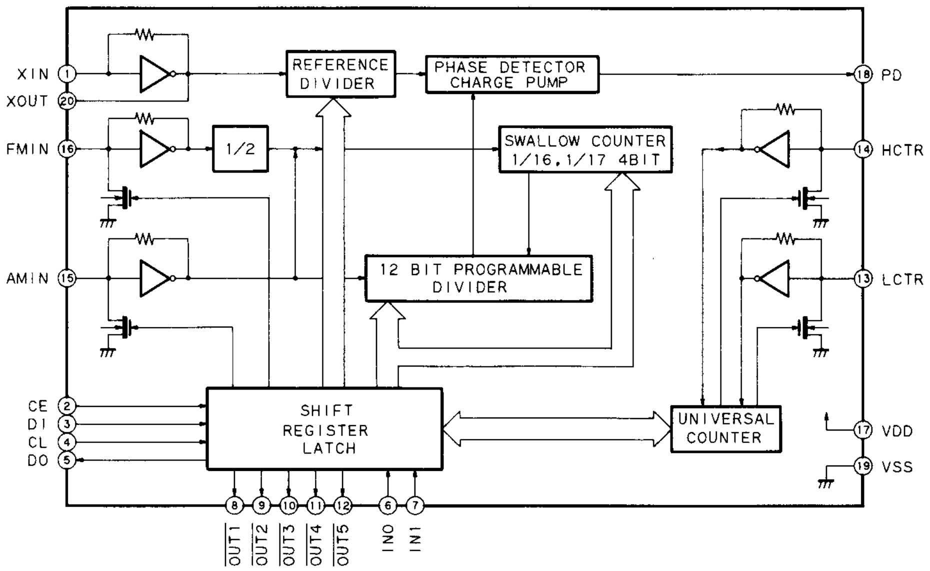

Anode
Cathode

CL-155Y/PG-CD

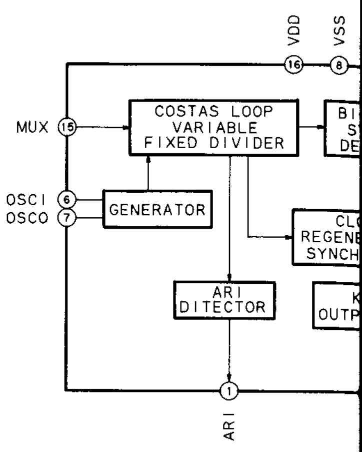


• IC Block Diagrams

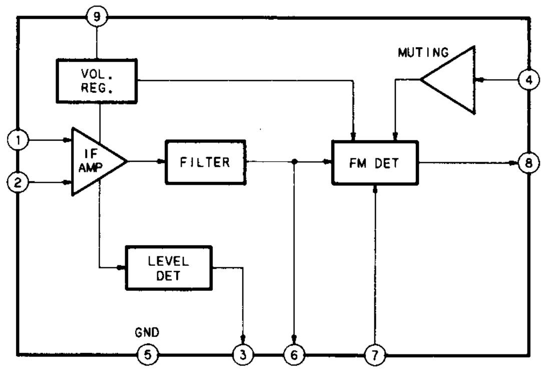
IC1 LC7216M


XIN 1
XOUT 20
FMIN 16
AMIN 15
CE 2
DI 3
CL 4
DO 5
REFERENCE DIVIDER
PHASE DETECTOR CHARGE PUMP
1/2
SWALLOW COUNTER 1/16, 1/17 4BIT
12 BIT PROGRAMMABLE DIVIDER
SHIFT REGISTER LATCH
UNIVERSAL COUNTER
18 PD
14 HCTR
13 LCTR
17 VDD
19 VSS
8 9 10 11 12 6 7
OUT1
OUT2
OUT3
OUT4
OUT5
IN0
IN1

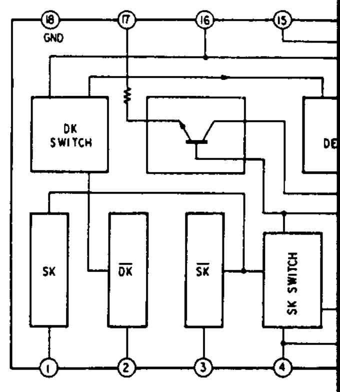
IC41 SAF7579T


VDD 16
VSS 8
MUX 15
OSCI 6
OSCO 7
COSTAS LOOP VARIABLE FIXED DIVIDER
GENERATOR
ARI DITECTOR
1 ARI

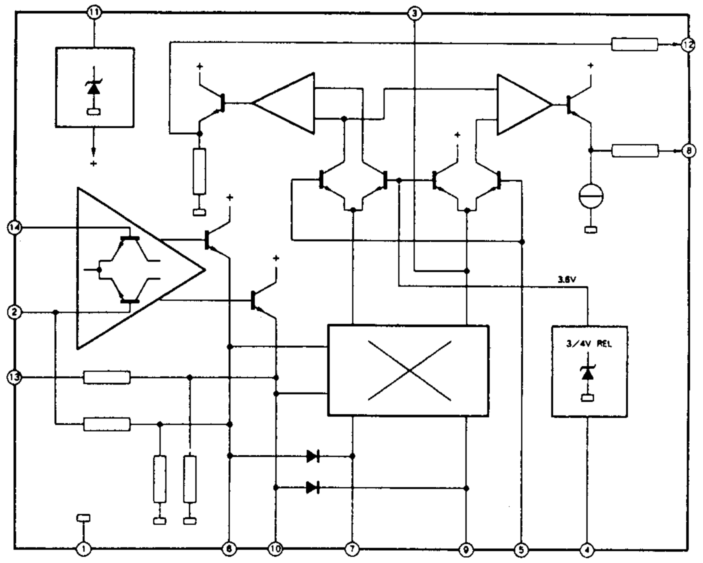
IC20 TA7303P


9
VOL. REG.
MUTING
4
1
2
IF AMP
FILTER
FM DET
8
LEVEL DET
GND
5
3
6
7

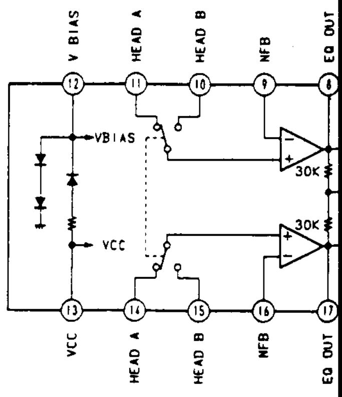
IC50 TDA1579


18 GND
17
16
15
DK SWITCH
SK
DK
SK
SK SWITCH
1
2
3
4

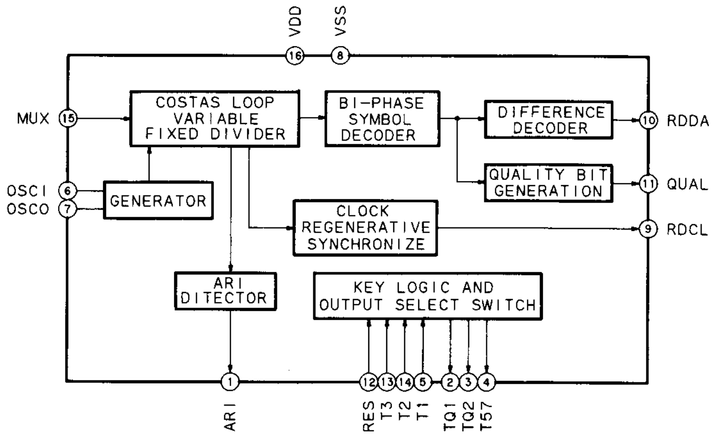
IC40 TBA120UB


11
3
12
8
14
2
13
3.8V
3/4V REL
1
6
10
7
9
5
4

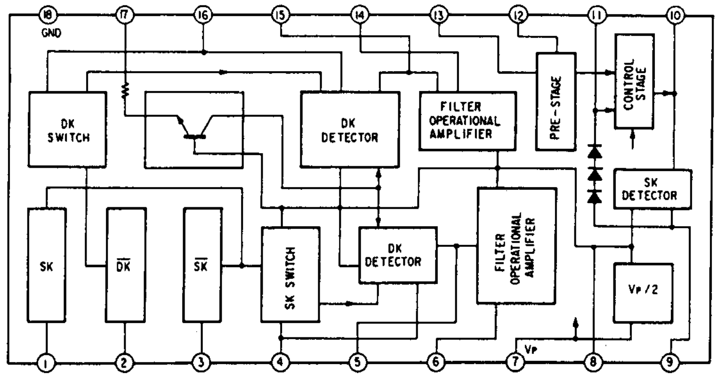
IC301 BA3430FS


V BIAS
HEAD A
HEAD B
NFB
EQ OUT
12
11
10
9
8
VBIAS
VCC
30K
30K
13
14
15
16
17
VCC
HEAD A
HEAD B
NFB
EQ OUT

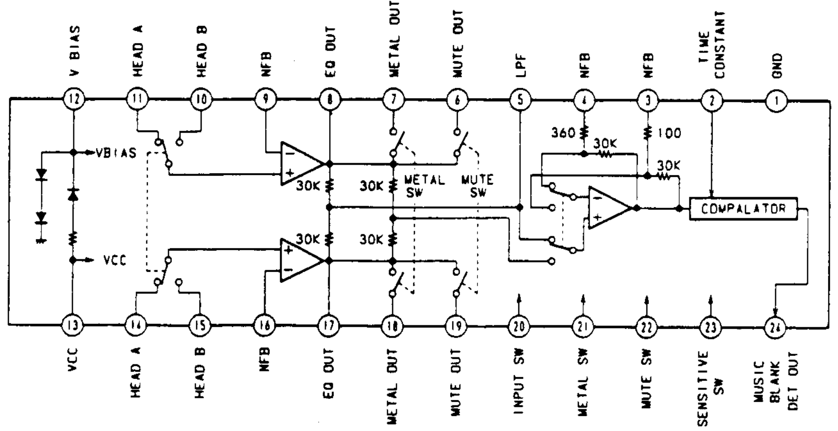
IC41 SAF7579T


VDD
VSS
MUX
OSCI
OSCO
COSTAS LOOP VARIABLE FIXED DIVIDER
BI-PHASE SYMBOL DECODER
DIFFERENCE DECODER
QUALITY BIT GENERATION
GENERATOR
CLOCK REGENERATIVE SYNCHRONIZE
ARI DITECTOR
KEY LOGIC AND OUTPUT SELECT SWITCH
RDDA
QUAL
RDCL
ARI
RES
T3
T2
T1
TQ1
TQ2
T57

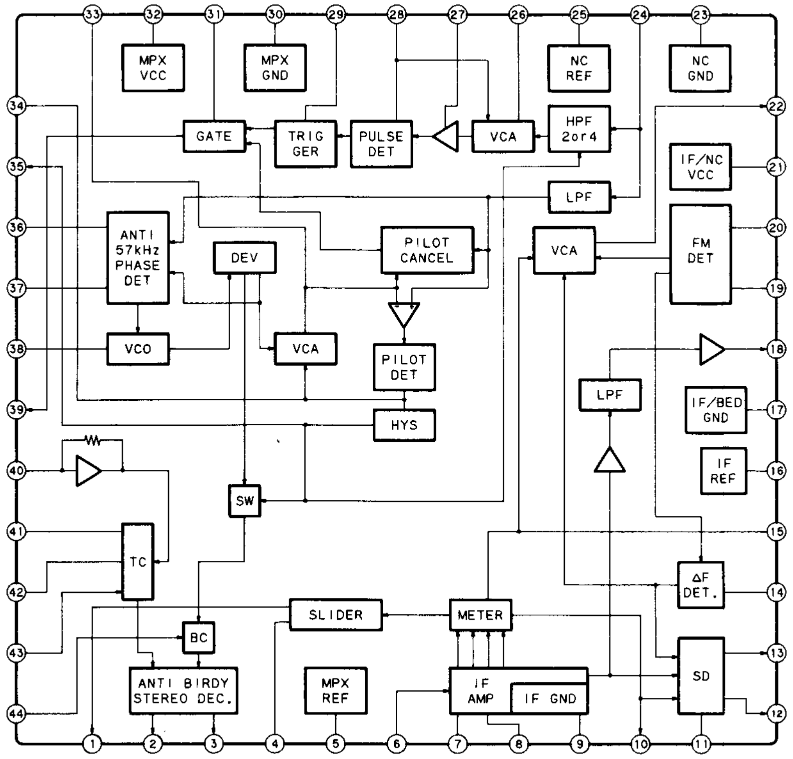
IC50 TDA1579


GND
DK SWITCH
DK DETECTOR
FILTER OPERATIONAL AMPLIFIER
PRE-STAGE
CONTROL STAGE
SK DETECTOR
SK
$\overline{\text{DK}}$
$\overline{\text{SK}}$
SK SWITCH
DK DETECTOR
FILTER OPERATIONAL AMPLIFIER
VP/2
VP

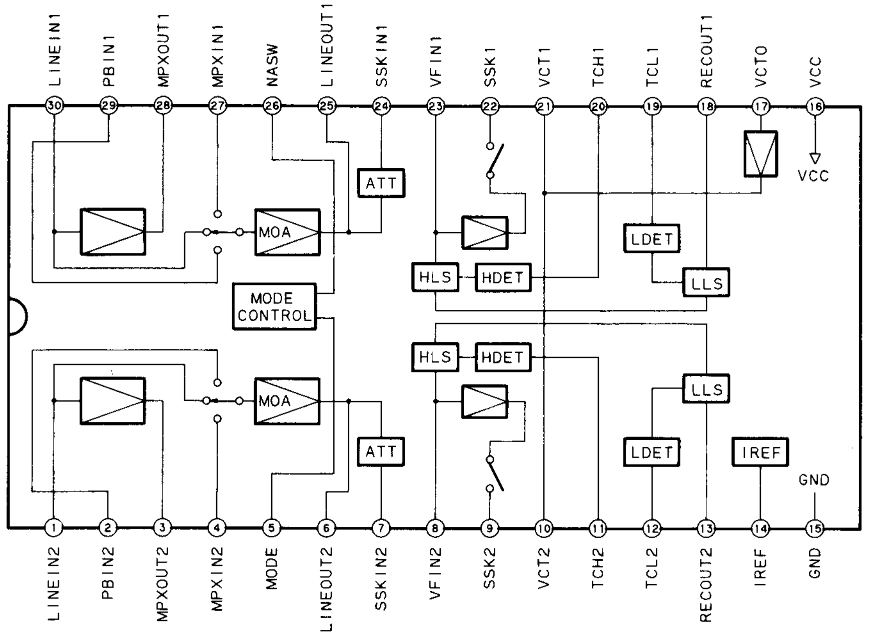
IC301 BA3430FS


V BIAS
HEAD A
HEAD B
NFB
EQ OUT
METAL OUT
MUTE OUT
LPF
NFB
NFB
TIME CONSTANT
GND
VBIAS
VCC
30K
30K
METAL SW
MUTE SW
30K
30K
360
30K
100
30K
COMPALATOR
VCC
HEAD A
HEAD B
NFB
EQ OUT
METAL OUT
MUTE OUT
INPUT SW
METAL SW
MUTE SW
SENSITIVE SW
MUSIC BLANK DET OUT

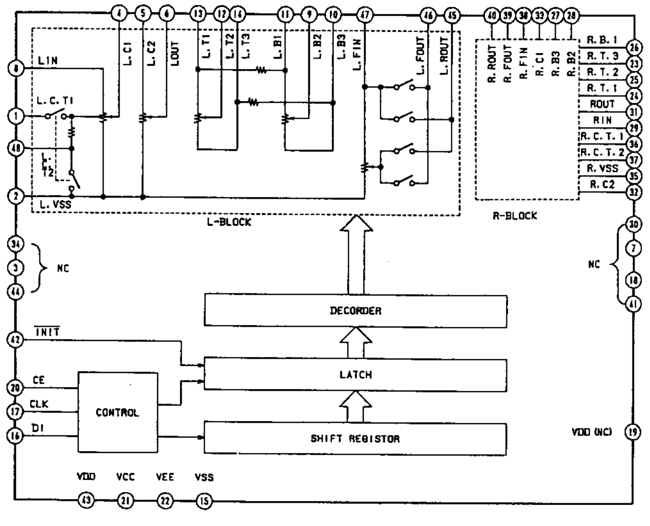
IC60 TA8172AF


MPX VCC
MPX GND
NC REF
NC GND
GATE
TRIG GER
PULSE DET
VCA
HPF 2or4
IF/NC VCC
LPF
ANTI 57kHz PHASE DET
DEV
PILOT CANCEL
VCA
FM DET
VCO
VCA
PILOT DET
HYS
LPF
IF/BED GND
IF REF
SW
TC
ΔF DET.
BC
SLIDER
METER
SD
ANTI BIRDY STEREO DEC.
MPX REF
IF AMP
IF GND

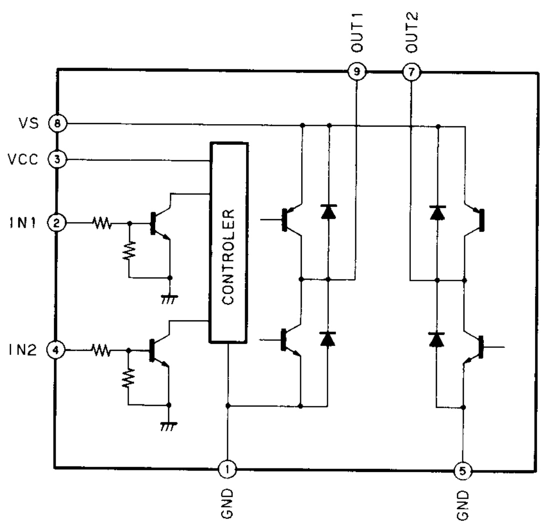
IC311 CXA1322M


LINEIN1
PBIN1
MPXOUT1
MPXIN1
NASW
LINEOUT1
SSKIN1
VFIN1
SSK1
VCT1
TCH1
TCL1
RECOUT1
VCTO
VCC
ATT
MOA
MODE CONTROL
HLS
HDET
LDET
LLS
VCC
HLS
HDET
LLS
MOA
ATT
LDET
IREF
GND
LINEIN2
PBIN2
MPXOUT2
MPXIN2
MODE
LINEOUT2
SSKIN2
VFIN2
SSK2
VCT2
TCH2
TCL2
RECOUT2
IREF
GND

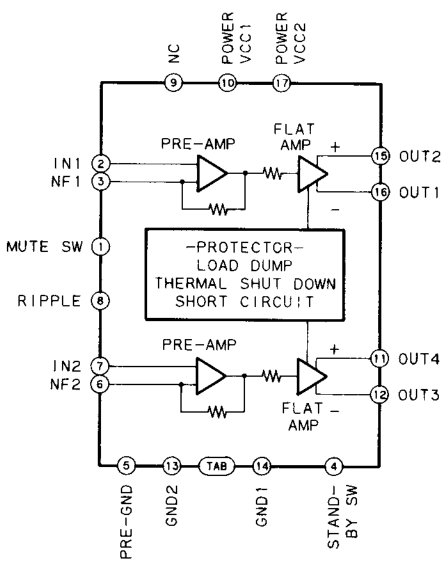
IC321 LC7537AN


L.C1
L.C2
LOUT
L.T1
L.T2
L.T3
L.B1
L.B2
L.B3
L.FIN
L.FOUT
L.ROUT
LIN
L.C.T1
L.C.T2
L.VSS
L-BLOCK
R.ROUT
R.FOUT
R.FIN
R.C1
R.B3
R.B2
R.B.1
R.T.3
R.T.2
R.T.1
ROUT
RIN
R.C.T.1
R.C.T.2
R.VSS
R.C2
R-BLOCK
NC
NC
DECORDER
$\overline{\text{INIT}}$
LATCH
CE
CLK
DI
CONTROL
SHIFT REGISTOR
VDD (NC)
VDD
VCC
VEE
VSS

IC431, 505 LB1638


OUT1
OUT2
VS
VCC
IN1
IN2
CONTROLER
GND
GND

IC801, 901 TA8221H

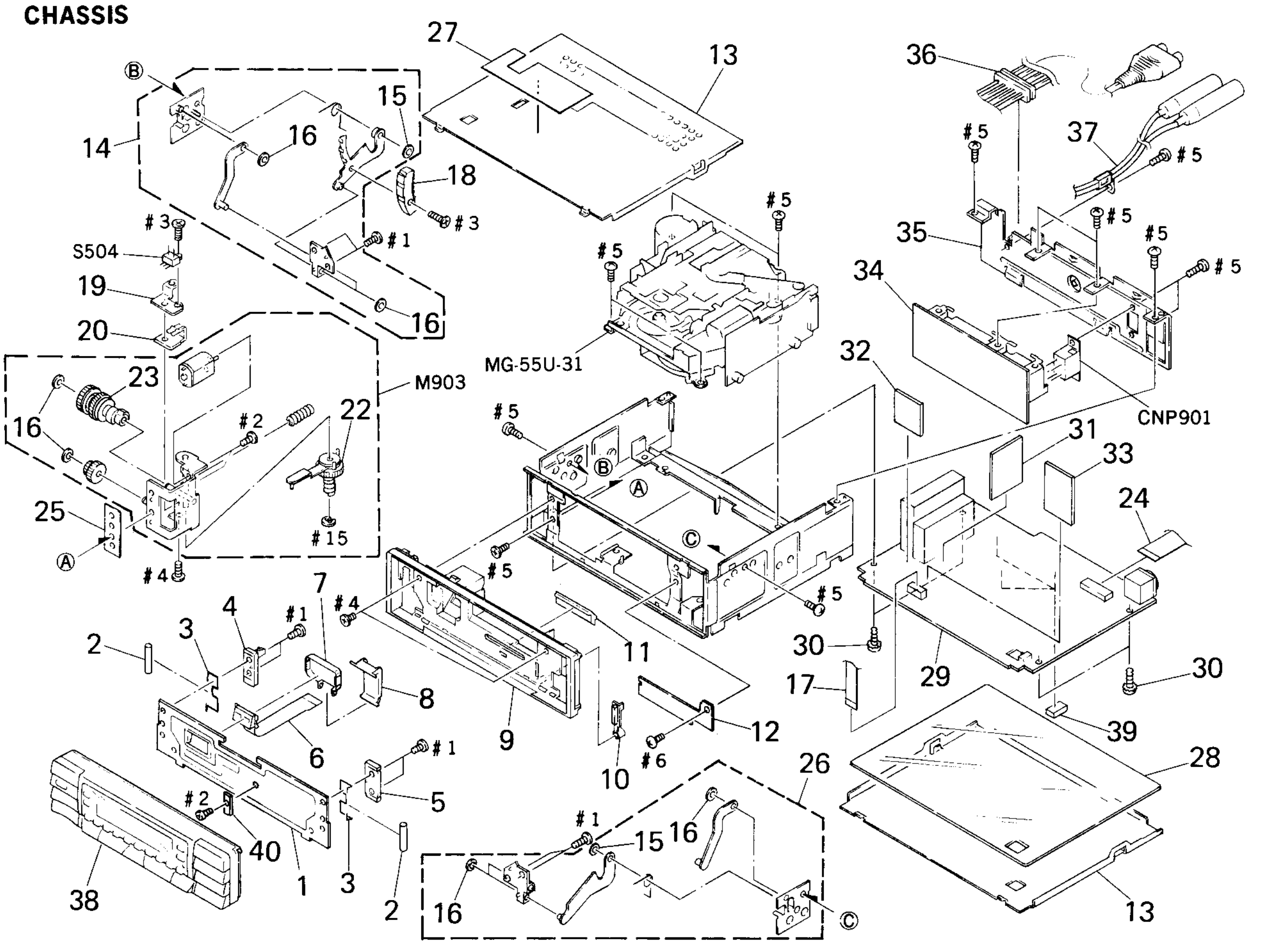

NC
POWER VCC1
POWER VCC2
IN1
NF1
PRE-AMP
FLAT AMP
OUT2
OUT1
MUTE SW
-PROTECTOR-
LOAD DUMP
THERMAL SHUT DOWN
SHORT CIRCUIT
RIPPLE
IN2
NF2
PRE-AMP
FLAT AMP
OUT4
OUT3
TAB
PRE-GND
GND2
GND1
STAND-BY SW

SECTION 4
EXPLODED VIEWS

NOTE:

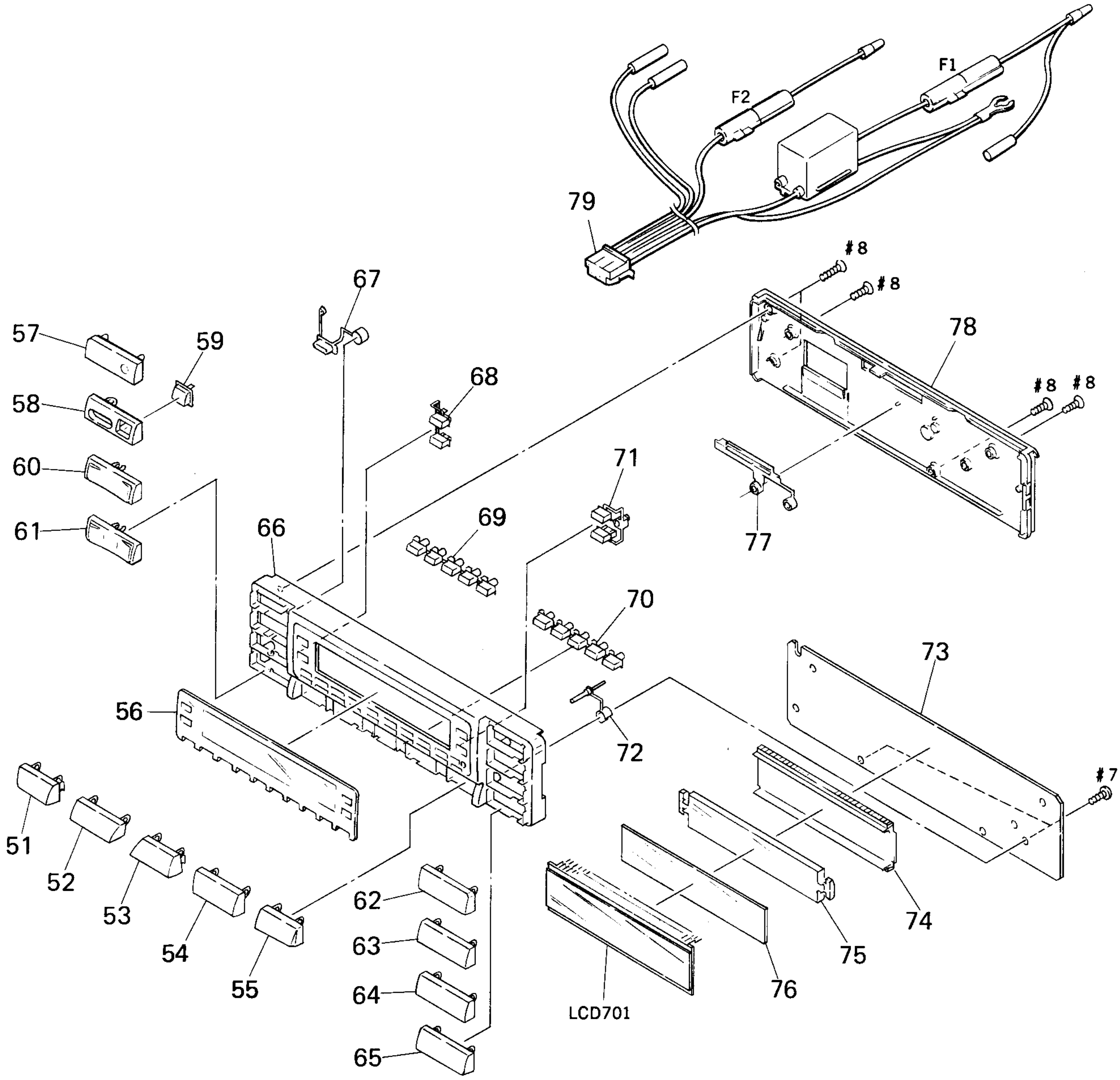
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Color Indication of Appearance Parts Example:
  KNOB, BALANCE (WHITE)...(RED)
  ↑ Parts Color ↑ Cabinet's Color
- Hardware(#mark) list is given in the last of this parts list.

4-1. CHASSIS



Ref. No.	Part No.	Description	Remark
1	* 3-367-517-01	BRACKET (F. P)	
2	* 3-367-493-01	ROLLER	
3	* 3-367-492-01	SPRING (ROLLER)	
4	* 3-367-491-01	COVER (ROLLER L)	
5	* 3-367-475-01	COVER (ROLLER R)	
6	1-573-539-11	CONNECTOR (WITH F.P.C)	
7	3-367-489-01	COVER (FLEXIBLE)	
8	3-367-488-01	COVER (CONNECTOR)	
9	* 3-367-523-01	PANEL, SUB	
10	3-367-494-01	BUTTON (RESET)	
11	* 3-367-495-01	PLATE (SUB PANEL), LIGHT GUIDE	
12	* 1-640-205-11	RESET BOARD	
13	* 3-367-525-01	COVER	
14	X-3362-827-1	LINK ASSY (L)	
15	L 3-321-813-01	WASHER, COTTER POLYETHYLENE	
16	3-325-290-21	WASHER, STOPPER	
17	1-690-022-11	COARD, CONNECTION (7 CORE)	
18	3-367-516-01	GEAR (3)	
19	* 3-367-501-01	BRACKET (SWITCH PC BOARD)	
20	* 3-367-513-01	COVER (SWITCH)	
22	X-3363-338-1	GEAR (WORM 2) ASSY	
23	X-3362-836-1	CLUTCH ASSY	
24	1-690-021-11	CORD, CONNECTION (15 CORE)	
25	* 3-371-259-11	SPACER	
26	X-3362-831-1	LINK ASSY (R)	
27	3-369-238-01	LABEL, MODEL NUMBER (XR-U882)	
27	3-369-239-01	LABEL, MODEL NUMBER (XR-U881)	
28	* 3-367-588-01	INSULATOR	
29	* A-3222-251-A	MAIN BOARD, COMPLETE (XR-U881)	
29	* A-3222-296-A	MAIN BOARD, COMPLETE (XR-U882)	
30	3-344-501-11	SCREW (+ PTT 3X8), GROUND POINT	
31	* A-3273-449-A	DIVER BOARD, COMPLETE	
32	* A-3273-577-A	AIR BOARD, COMPLETE (XR-U882)	
33	* A-3273-451-A	RDS BOARD, COMPLETE	
34	* 1-640-209-11	POWER BOARD	
35	* 3-367-522-01	PANEL, BACK	
36	1-590-511-11	CORD (WITH CONNECTOR)	
37	1-590-525-11	CORD (WITH CONNECTOR)	
38	* A-3252-163-A	PANEL ASSY, FRONT (XR-U881)	
38	* A-3252-222-A	PANEL ASSY, FRONT (XR-U882)	
39	9-911-841-XX	CUSHION, CASSETTE LID	
40	3-371-056-01	GUID	
CNP901	* 1-573-384-11	CONNECTOR	
M903	X-3362-835-1	MOTOR BLOCK ASSY	
S504	1-570-883-11	SWITCH, PUSH (2 KEY) (DPO/DP1)	

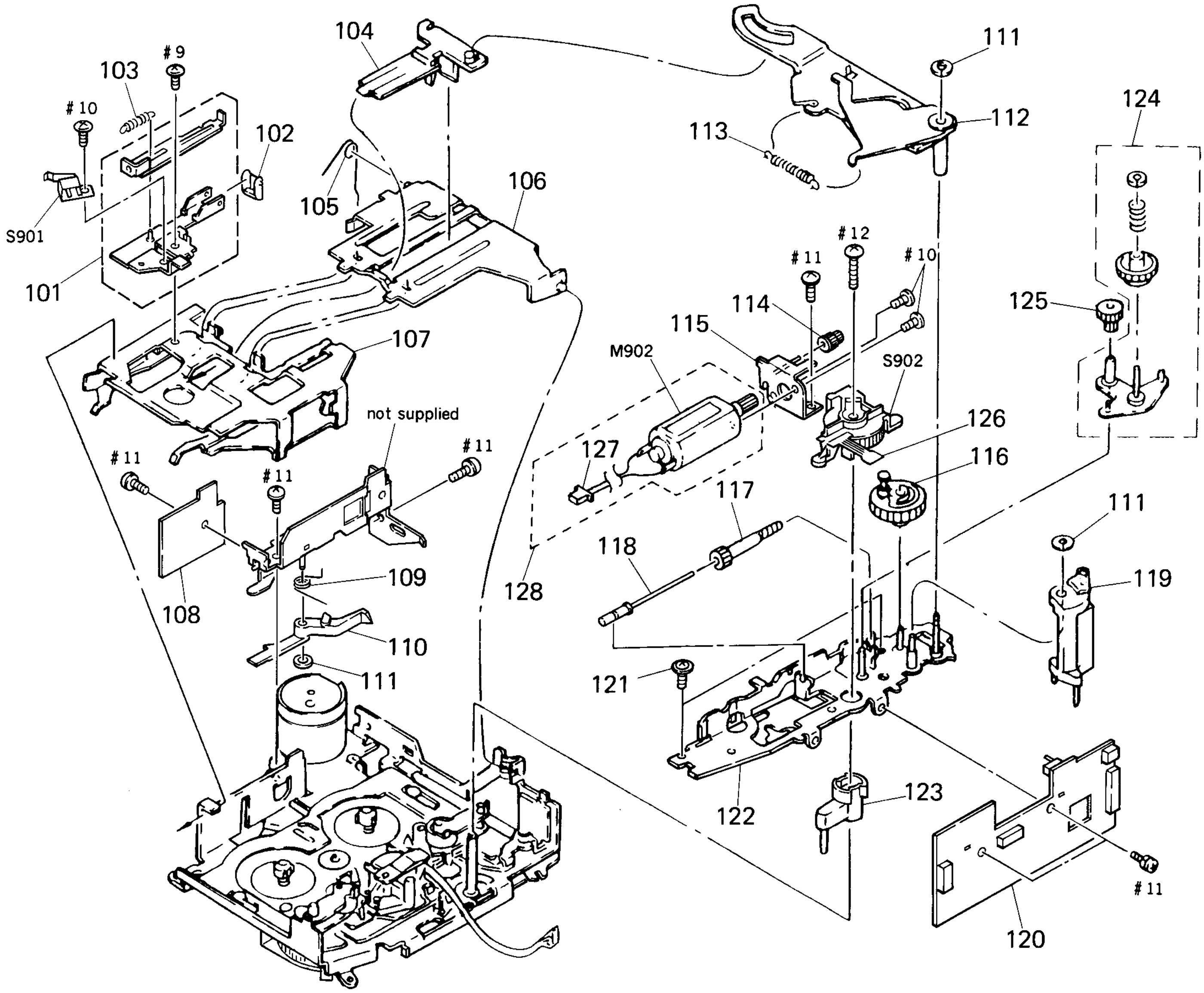
4-2. FRONT PANEL/POWER CORD



Ref. No.	Part No.	Description	Remark
51	3-367-562-01	BUTTON (MUTE)	
52	3-367-561-01	BUTTON (-)	
53	3-367-560-01	BUTTON (SELECT)	
54	3-367-559-01	BUTTON (+)	
55	3-367-558-01	BUTTON (LOUD)	
56	3-367-554-11	PLATE, INDICATION	
57	3-367-563-01	BUTTON (LU)	
58	3-367-570-01	COVER (RAY CATCHER)	
59	3-367-567-01	FILTER (RAY CATCHER)	
60	3-367-565-01	BUTTON (SEEK)	
61	3-367-566-01	BUTTON (MANU)	
62	3-367-555-11	BUTTON (RU) (XR-U881)	
62	3-367-555-21	BUTTON (RU) (XR-U882)	
63	3-367-556-11	BUTTON (RM)	
64	3-367-556-21	BUTTON (RM)	
65	3-367-557-01	BUTTON (RD)	
66	3-367-553-01	PANEL, FRONT	

Ref. No.	Part No.	Description	Remark
67	3-367-564-01	BUTTON (OFF)	
68	3-367-568-01	BUTTON (2 GANG L)	
69	3-367-572-01	BUTTON (PRESET/5)	
70	3-367-572-11	BUTTON (PRESET/5)	
71	3-367-569-01	BUTTON (2 GANG R)	
72	3-367-574-01	BUTTON (RESET)	
73	* A-3222-252-A	KEY BOARD, COMPLETE	
74	* 3-367-571-01	HOLDER (LCD)	
75	* 3-367-573-01	PLATE (LCD), LIGHT GUIDE	
76	* 3-368-252-01	SHEET (REFLECTOR)	
77	* 3-367-474-01	BUTTON (LOCK)	
78	3-367-526-01	PANEL, FRONT BACK	
79	1-590-522-21	CORD (WITH CONNECTOR) 5P	
F1	1-532-457-XX	FUSE 3.15A	
F2	1-532-452-XX	FUSE 1A	
LCD701	1-809-286-11	DISPLAY PANEL, LIQUID CRYSTAL	

4-3. MECHANISM DECK BLOCK (1)



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#9
103
#10
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S901
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107
not supplied
#11
#11
#11
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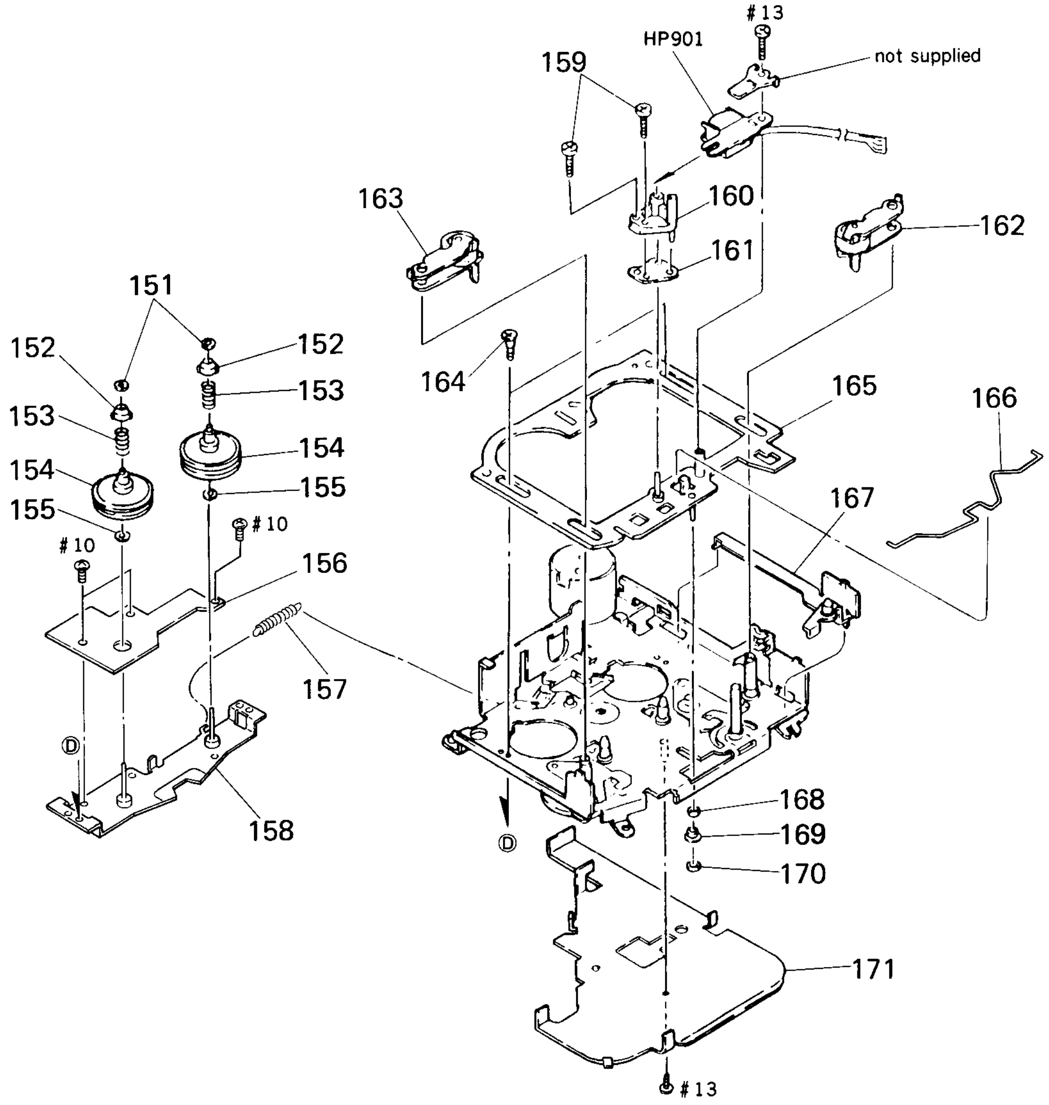
124
#12
#11
#10
114
115
M902
S902
125
126
127
116
117
118
128
111
119
121
122
123
#11
120

Ref. No.	Part No.	Description	Remark
101	X-3362-992-1	BRACKET ASSY, SWITCH	
102	3-368-235-01	LEVER, CASSETTE DETECTION	
103	3-542-475-00	SPRING, TENSION	
104	* 3-344-118-01	CATCHER	
105	3-344-113-03	SPRING	
106	* X-3362-262-1	HANGER (F) ASSY, HOUSING	
107	* 3-344-103-21	HOUSING, CASSETTE	
108	* 1-639-452-11	SENS BOARD	
109	3-344-285-01	SPRING (F), TS	
110	3-368-237-01	ARM (U), TS	
111	3-344-222-01	WASHER	
112	* X-3344-121-1	ARM ASSY, SUCTION	
113	3-344-216-01	SPRING (SUCTION ARM), TENSION	
114	3-344-281-01	GEAR (A), DRIVING	
115	* X-3344-142-2	BRACKET (F) ASSY, MOTOR	
116	X-3344-119-1	GEAR ASSY, LOADING CAM	
117	3-344-156-01	GEAR (B), DRIVING	
118	* 3-344-157-01	SHAFT, DRIVING GEAR (B)	
119	* 3-344-260-01	ARM, REVERSE	
120	* A-3222-258-A	EQ BOARD, COMPLETE	
121	3-703-502-21	SCREW	
122	* X-3362-260-3	CHASSIS (F) ASSY, MCU	
123	X-3344-117-1	ARM ASSY, MODE	
124	A-3239-954-A	GEAR ASSY, DRIVING ARM	
125	3-344-108-01	GEAR (A), FRICTION	
126	1-635-519-12	PC BOARD, FLEXIBLE	
127	* 1-563-470-11	HOUSING, CONNECTOR 2P	
128	A-3252-174-A	MOTOR SUB ASSY (U), L	
M902	X-3362-826-1	GEAR ASSY, MOTOR	
S901	1-572-765-11	SWITCH, MICRO (CASSETTE HALF)	
S902	1-572-397-11	SWITCH, ROTARY SLIDE	

4-4. MECHANISM DECK BLOCK (2)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HP901
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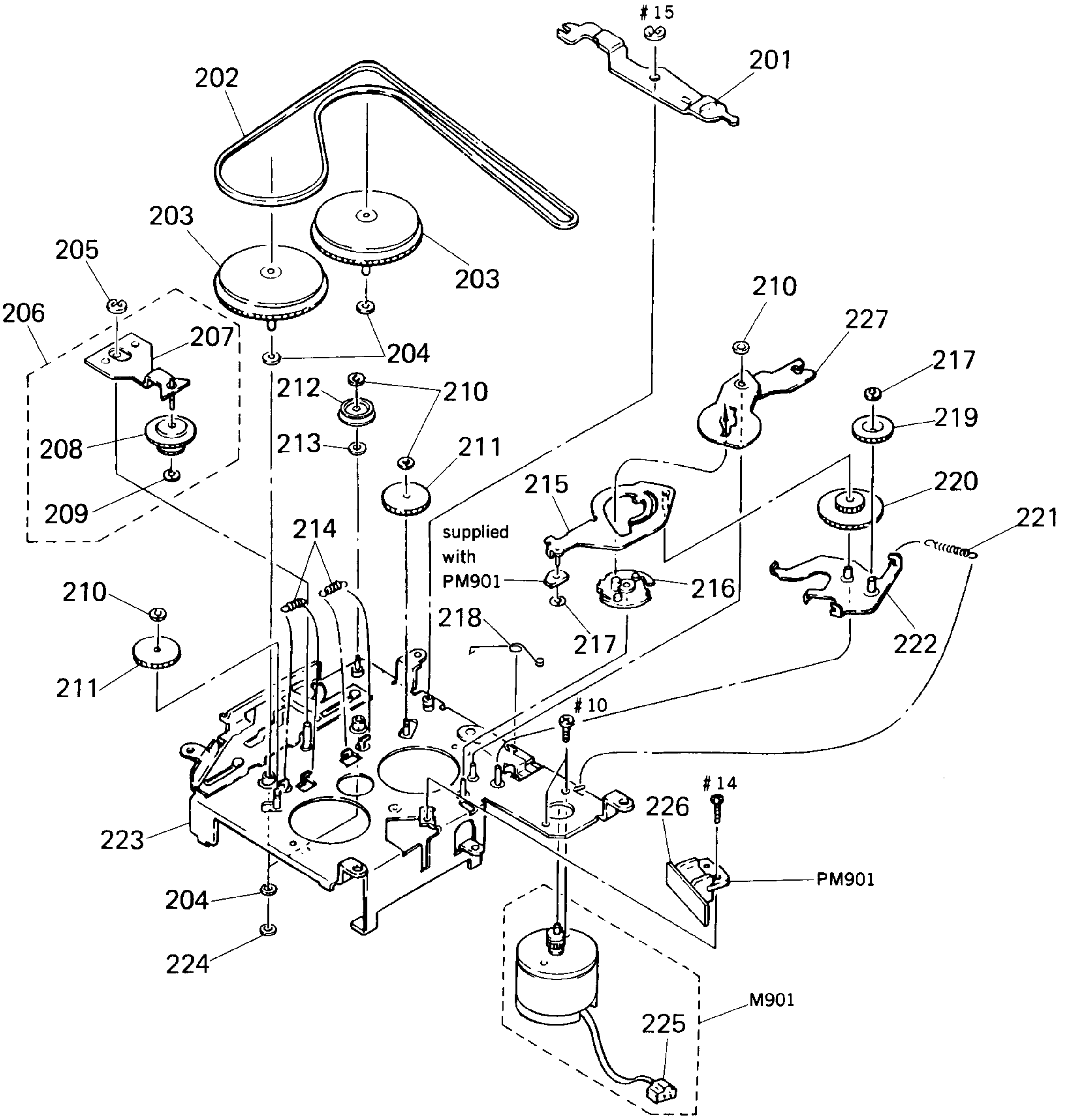
167
#10
#10
156
157
D
158
168
D
169
170
171
#13

Ref. No.	Part No.	Description	Remark
151	3-364-151-01	WASHER	
152	3-365-725-01	CAP (F), REEL	
153	3-344-143-01	SPRING (BT), COMPRESSION	
154	X-3362-214-1	TABLE (F) ASSY, REEL	
155	3-701-437-01	POLY-SLIDER (A)	
156	* 1-639-453-11	REEL BOARD	
157	3-344-217-01	SPRING(CAM LOCK LEVER), TENTION	
158	* X-3344-144-2	BRACKET (F) ASSY, REEL TABLE	
159	3-364-122-01	SCREW (M1.4X5.5), ADJ	
160	3-344-127-01	ARM, DAH	
161	3-344-128-01	SEAM, DAH	
162	X-3344-116-1	ARM (F) ASSY, PINCH	
163	X-3344-115-1	ARM (R) ASSY, PINCH	
164	3-344-110-01	SCREW (HB), STEP	
165	X-3362-261-1	BASE ASSY (R), HEAD	
166	* 3-363-909-01	SPRING (R), PINCH PRESS	
167	* X-3344-118-1	LEVER ASSY, RVS CONVERSION	
168	3-344-117-01	ROLLER (B), H/B	
169	3-344-116-01	ROLLER (A), H/B	
170	3-344-222-01	WASHER	
171	* 3-344-220-01	COVER, MD	
HP901	1-543-800-21	HEAD, MAGNETIC (PLAYBACK)	

4-5. MECHANISM DECK BLOCK (3)


#15
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202
203
203
205
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204
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227
217
212
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219
208
213
211
215
220
209
214
supplied with PM901
221
216
210
218
217
222
211
#10
#14
226
223
PM901
204
224
M901
225

Ref. No.	Part No.	Description	Remark
201	* X-3344-139-1	ARM ASSY, POWER	
202	3-344-115-01	BELT	
203	3-344-261-01	FLYWHEEL (M)	
204	3-701-437-01	POLY-SLIDER (A)	
205	3-590-768-00	RING (A), E	
206	A-3239-947-A	GEAR SUB ASSY, FR	
207	* X-3344-101-1	ARM ASSY, FR	
208	X-3344-102-1	GEAR ASSY, FR	
209	3-344-224-01	WASHER	
210	3-344-222-01	WASHER	
211	3-344-104-01	GEAR, PLAY	
212	3-344-263-01	PULLEY (M), MIDWAY	
213	3-701-436-01	WASHER, 1.6	
214	3-344-218-02	SPRING (PLAY ARM), TENSION	
215	X-3344-107-1	LEVER ASSY, CAM LOCK	

Ref. No.	Part No.	Description	Remark
216	3-344-119-01	GEAR, RVS CAM	
217	3-344-223-01	WASHER	
218	3-344-279-01	SPRING, BUFFER	
219	3-344-147-01	GEAR (A), RVS	
220	3-344-146-01	GEAR (B), RVS	
221	3-344-215-01	SPRING, TENSION	
222	* X-3344-106-1	LEVER ASSY, RVS GEAR (B)	
223	* X-3362-215-2	CHASSIS (L) ASSY, MECHANICAL	
224	3-364-151-01	WASHER	
225	* 1-563-470-11	HOUSING, CONNECTOR 2P	
226	1-639-454-11	PL BOARD	
227	* X-3344-114-1	LEVER ASSY, RVS	
M901	X-3344-136-3	CAPSTAN MOTOR SUB ASSY	
PM901	1-454-461-11	SOLENOID, PLUNGER	

EQ

SECTION 5
ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- -XX, -X mean standardized parts, so they may have some differences from the original one.
- CAPACITORS
  uF: μF
- RESISTORS
  All resistors are in ohms
  METAL: Metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F: nonflammable
- COILS
  uH: μH
- SEMICONDUCTORS
  In each case, u: μ, for example:
  uA...: μA..., uPA...: μPA...,
  uPB...: μPB..., uPC...: μPC...,
  uPD...: μPD....

When indicating parts by reference number, please include the board name.

Ref. No.	Part No.	Description			Remark
	* A-3222-258-A	EQ BOARD, COMPLETE ******************			
		< CAPACITOR >			
C101	1-130-467-00	MYLAR	470PF	5%	50V
C102	1-130-467-00	MYLAR	470PF	5%	50V
C103	1-126-285-11	ELECT	47uF	20%	6.3V
C104	1-137-338-11	FILM CHIP	0.01uF	5%	250V
C201	1-130-467-00	MYLAR	470PF	5%	50V
C202	1-130-467-00	MYLAR	470PF	5%	50V
C203	1-126-285-11	ELECT	47uF	20%	6.3V
C204	1-137-338-11	FILM CHIP	0.01uF	5%	250V
C302	1-126-189-11	ELECT	0.22uF	20%	50V
C303	1-124-779-00	ELECT CHIP	10uF	20%	16v
C304	1-124-779-00	ELECT CHIP	10uF	20%	16v
C305	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C306	1-126-277-11	ELECT	100uF	20%	10V
C307	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C308	1-126-277-11	ELECT	100uF	20%	10V
C309	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C401	1-163-081-00	CERAMIC CHIP	0.22uF		25V
		< CONNECTOR >			
CNP301	1-569-806-21	CONNECTOR, FPC5P			
CNP302	1-569-363-21	CONNECTOR, FPC 15P			
CNP401	* 1-506-998-11	PIN, CONNECTOR (PC BOARD) 2P			
CNP402	1-569-806-21	CONNECTOR, FPC5P			
		< DIODE >			
D301	8-719-976-31	DIODE 1SS332			
D302	8-719-976-31	DIODE 1SS332			
D303	8-719-976-31	DIODE 1SS332			

Ref. No.	Part No.	Description			Remark
		< IC >			
IC301	8-759-988-33	IC BA3430FS			
		< RESISTOR >			
R101	1-216-683-11	METAL CHIP	22K	0.5%	1/10W
R102	1-216-683-11	METAL CHIP	22K	0.5%	1/10W
R103	1-216-109-00	METAL CHIP	330K	5%	1/10W
R104	1-216-677-11	METAL CHIP	12K	0.5%	1/10W
R105	1-216-681-11	METAL CHIP	18K	0.5%	1/10W
R201	1-216-683-11	METAL CHIP	22K	0.5%	1/10W
R202	1-216-683-11	METAL CHIP	22K	0.5%	1/10W
R203	1-216-109-00	METAL CHIP	330K	5%	1/10W
R204	1-216-677-11	METAL CHIP	12K	0.5%	1/10W
R205	1-216-681-11	METAL CHIP	18K	0.5%	1/10W
R301	1-216-073-00	METAL CHIP	10K	5%	1/10W
R302	1-216-105-00	METAL CHIP	220K	5%	1/10W
R303	1-216-295-00	METAL CHIP	0	5%	1/10W
R304	1-216-029-00	METAL CHIP	150	5%	1/10W
		< VARIABLE RESISTOR >			
RV101	1-241-552-11	RES, ADJ CERMET 470			
RV201	1-241-552-11	RES, ADJ CERMET 470			
		< SWITCH >			
S401	1-570-953-11	SWITCH, PUSH (1 KEY) (TAPE IN)			
S402	1-570-953-11	SWITCH, PUSH (1 KEY) (R/F)			

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Ref. No.	Part No.	Description	Remark
	* A-3222-252-A	KEY BOARD, COMPLETE	
		*******************	
	* 3-367-571-01	HOLDER (LCD)	
	* 3-367-573-01	PLATE (LCD), LIGHT GUIDE	
	* 3-368-252-01	SHEET (REFLECTOR)	
		< CAPACITOR >	
C701	1-164-222-11	CERAMIC CHIP 0.22uF	25V
C702	1-163-141-00	CERAMIC CHIP 0.001uF 5%	50V
C704	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C705	1-163-037-11	CERAMIC CHIP 0.022uF 10%	25V
C706	1-135-149-21	TANTALUM CHIP 2.2uF 20%	10V
C707	1-164-222-11	CERAMIC CHIP 0.22uF	25V
C708	1-164-232-11	CERAMIC CHIP 0.01uF	50V
		< CONNECTOR >	
CNP701	1-580-806-11	CONNECTOR, PLUG 10P	
		< DIODE >	
D701	8-719-977-00	DIODE DTZ5.1C	
D702	8-719-977-07	DIODE DTZ6.2B	
D703	8-719-976-31	DIODE 1SS332	
D704	8-719-976-31	DIODE 1SS332	
D705	8-719-976-31	DIODE 1SS332	
D706	8-719-977-07	DIODE DTZ6.2B	
D707	8-719-977-07	DIODE DTZ6.2B	
D708	8-719-977-07	DIODE DTZ6.2B	
D709	8-719-976-31	DIODE 1SS332	
D711	8-719-976-31	DIODE 1SS332	
D712	8-719-976-31	DIODE 1SS332	
D713	8-719-976-31	DIODE 1SS332	
D714	8-719-976-31	DIODE 1SS332	
D715	8-719-976-31	DIODE 1SS332	
D716	8-719-976-31	DIODE 1SS332	
D717	8-719-977-00	DIODE DTZ5.1C	
D718	8-719-987-45	TRANSISTOR CL-155Y/PG-CD	
D719	8-719-987-45	TRANSISTOR CL-155Y/PG-CD	
D720	8-719-987-45	TRANSISTOR CL-155Y/PG-CD	
D721	8-719-987-45	TRANSISTOR CL-155Y/PG-CD	
D722	8-719-987-45	TRANSISTOR CL-155Y/PG-CD	
D723	8-719-987-45	TRANSISTOR CL-155Y/PG-CD	
D724	8-719-987-45	TRANSISTOR CL-155Y/PG-CD	
D725	8-719-987-45	TRANSISTOR CL-155Y/PG-CD	
D726	8-719-987-45	TRANSISTOR CL-155Y/PG-CD	
D727	8-719-987-45	TRANSISTOR CL-155Y/PG-CD	
D728	8-719-987-45	TRANSISTOR CL-155Y/PG-CD	
D729	8-719-987-45	TRANSISTOR CL-155Y/PG-CD	
D730	8-719-987-45	TRANSISTOR CL-155Y/PG-CD	
D731	8-719-987-45	TRANSISTOR CL-155Y/PG-CD	
D732	8-719-987-45	TRANSISTOR CL-155Y/PG-CD	
D733	8-719-987-45	TRANSISTOR CL-155Y/PG-CD	
D734	8-719-987-45	TRANSISTOR CL-155Y/PG-CD	
D735	8-719-987-45	TRANSISTOR CL-155Y/PG-CD	
D736	8-719-987-45	TRANSISTOR CL-155Y/PG-CD	
D737	8-719-987-45	TRANSISTOR CL-155Y/PG-CD	
D738	8-719-987-45	TRANSISTOR CL-155Y/PG-CD	
D739	8-719-987-45	TRANSISTOR CL-155Y/PG-CD	
D740	8-719-987-45	TRANSISTOR CL-155Y/PG-CD	
D741	8-719-987-45	TRANSISTOR CL-155Y/PG-CD	
D742	8-719-987-45	TRANSISTOR CL-155Y/PG-CD	
		< IC >	
IC701	8-759-515-60	IC RS-20	
IC702	8-759-154-94	IC UPD75008GB-632-3B4	
IC703	8-759-246-16	IC TC9240F	
IC704	8-759-981-65	IC LM2903M	
		< COIL >	
L701	1-410-204-31	INDUCTOR CHIP 10uH	
		< LCD >	
LCD701	1-809-286-11	DISPLAY PANEL, LIQUID CRYSTAL	
		< PILOT LAMP >	
PL701	1-518-678-21	LAMP, PILOT	
PL702	1-518-678-21	LAMP, PILOT	
PL703	1-518-677-21	LAMP, PILOT	
PL704	1-518-677-21	LAMP, PILOT	
		< TRANSISTOR >	
Q701	8-729-904-57	TRANSISTOR DTB114EK	
Q702	8-729-900-53	TRANSISTOR DTC114EK	
Q703	8-729-904-57	TRANSISTOR DTB114EK	
Q704	8-729-900-53	TRANSISTOR DTC114EK	
Q705	8-729-904-66	TRANSISTOR DTD113EK	
Q706	8-729-904-66	TRANSISTOR DTD113EK	
Q707	8-729-904-66	TRANSISTOR DTD113EK	
Q708	8-729-904-66	TRANSISTOR DTD113EK	
Q709	8-729-901-11	TRANSISTOR DTA124EK	
Q710	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q711	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
		< RESISTOR >	
R701	1-216-049-00	METAL CHIP 1K 5%	1/10W
R702	1-216-025-00	METAL CHIP 100 5%	1/10W
R703	1-216-089-00	METAL CHIP 47K 5%	1/10W

Ref. No.	Part No.	Description				Remark
R704	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R705	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R706	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R707	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R708	1-216-105-00	METAL CHIP	220K	5%	1/10W	
R709	1-216-105-00	METAL CHIP	220K	5%	1/10W	
R710	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R711	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R712	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R713	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R714	1-216-063-00	METAL CHIP	3.9K	5%	1/10W	
R715	1-216-041-00	METAL CHIP	470	5%	1/10W	
R716	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R717	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R718	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R719	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R720	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R721	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R722	1-216-182-00	METAL GLAZE	220	5%	1/8W	
R723	1-216-186-00	METAL GLAZE	330	5%	1/8W	
R724	1-216-186-00	METAL GLAZE	330	5%	1/8W	
R725	1-216-033-00	METAL CHIP	220	5%	1/10W	
R726	1-216-033-00	METAL CHIP	220	5%	1/10W	
R727	1-216-033-00	METAL CHIP	220	5%	1/10W	
R728	1-216-033-00	METAL CHIP	220	5%	1/10W	
R729	1-216-033-00	METAL CHIP	220	5%	1/10W	
R730	1-216-033-00	METAL CHIP	220	5%	1/10W	
R734	1-216-089-00	METAL CHIP	47K	5%	1/10W	

< SWITCH >

Ref. No.	Part No.	Description	Remark
S701	1-572-768-11	SWITCH, KEY BOARD (CD)	
S702	1-572-768-11	SWITCH, KEY BOARD (MUTE)	
S703	1-572-768-11	SWITCH, KEY BOARD (SELECT)	
S704	1-572-768-11	SWITCH, KEY BOARD (MANU+/DISC FF)	
S705	1-572-768-11	SWITCH, KEY BOARD (MANU-/DISC REW)	
S706	1-572-768-11	SWITCH, KEY BOARD (+)	
S707	1-572-768-11	SWITCH, KEY BOARD (-)	
S708	1-572-768-11	SWITCH, KEY BOARD (LOUD)	
S709	1-572-768-11	SWITCH, KEY BOARD (TAPE ◀‖▶)	
S710	1-572-768-11	SWITCH, KEY BOARD (INTRO/1)	
S711	1-572-768-11	SWITCH, KEY BOARD (BANK/3)	
S712	1-572-768-11	SWITCH, KEY BOARD (SEEK+/AMS⏮)	
S713	1-572-768-11	SWITCH, KEY BOARD (SEEK-/AMS⏭)	
S714	1-572-768-11	SWITCH, KEY BOARD (REPEAT/2)	
S715	1-572-768-11	SWITCH, KEY BOARD (0)	
S716	1-572-768-11	SWITCH, KEY BOARD (TV/VIDEO)	
S717	1-572-768-11	SWITCH, KEY BOARD (7)	
S718	1-572-768-11	SWITCH, KEY BOARD (8)	
S719	1-572-768-11	SWITCH, KEY BOARD (M.SCAN/BTM)	
S720	1-572-768-11	SWITCH, KEY BOARD (DSPL)	
S721	1-572-768-11	SWITCH, KEY BOARD (9)	
S722	1-572-768-11	SWITCH, KEY BOARD (□□ FILE)	
S723	1-572-768-11	SWITCH, KEY BOARD (FM/AM)	
S724	1-572-768-11	SWITCH, KEY BOARD (BL.SKIP/6)	
S725	1-572-768-11	SWITCH, KEY BOARD (ATA/5)	
S726	1-572-768-11	SWITCH, KEY BOARD (OFF)	
S727	1-572-768-11	SWITCH, KEY BOARD (OPEN ⏏)	
S728	1-572-768-11	SWITCH, KEY BOARD (SHUF/4)	
S729	1-572-768-11	SWITCH, KEY BOARD (SENS)	

< VIBRATOR >

Ref. No.	Part No.	Description	Remark
X701	1-567-775-11	VIBRATOR, CERAMIC (4.19MHZ)	

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* A-3222-296-A MAIN BOARD, COMPLETE (XR-U882)
* A-3222-215-A MAIN BOARD, COMPLETE (XR-U881)

****

* A-3273-449-A DIVER BOARD, COMPLETE

****

* A-3273-451-A RDS BOARD, COMPLETE

****

* A-3273-557-A ARI BOARD, COMPLETE (XR-U882)

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1-690-021-11 CORD, CONNECTION (15 CORE)
1-690-022-11 CORD, CONNECTION (7 CORE)

< CAPACITOR >

Ref. No.	Part No.	Description				Remark
C1	1-126-162-11	ELECT (XR-U882)	3.3uF	20%	50V	
C2	1-164-232-11	CERAMIC CHIP	0.01uF		50V	
C3	1-136-162-00	FILM	0.056uF	5%	50V	
C4	1-163-103-00	CERAMIC CHIP	27PF	5%	50V	
C5	1-163-103-00	CERAMIC CHIP	27PF	5%	50V	
C6	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C7	1-136-169-00	FILM	0.22uF	5%	50V	
C8	1-130-479-00	MYLAR	0.0047uF	5%	50V	
C9	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C10	1-164-232-11	CERAMIC CHIP	0.01uF		50V	
C11	1-164-232-11	CERAMIC CHIP	0.01uF		50V	
C12	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V	
C13	1-164-182-11	CERAMIC CHIP	0.0033uF	10%	50V	
C14	1-163-833-00	CERAMIC CHIP	0.068uF		25V	
C15	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C16	1-124-499-11	ELECT	1uF	20%	50V	
C17	1-163-038-00	CERAMIC CHIP	0.1uF		25V	
C18	1-163-833-11	CERAMIC CHIP	0.068uF	10%	25V	
C19	1-164-232-11	CERAMIC CHIP	0.01uF		50V	
C20	1-164-232-11	CERAMIC CHIP	0.01uF		50V	

Ref. No.	Part No.	Description			Remark
C21	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C22	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C23	1-164-182-11	CERAMIC CHIP	0.0033uF	10%	50V
C24	1-163-833-00	CERAMIC CHIP	0.068uF		25V
C25	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C26	1-124-499-11	ELECT	1uF	20%	50V
C27	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C28	1-163-833-11	CERAMIC CHIP	0.068uF	10%	25V
C29	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C30	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C31	1-163-097-00	CERAMIC CHIP	15PF	5%	50V
C32	1-164-232-11	CERAMIC CHIP	0.01uF	10%	50V
C33	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C34	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C35	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C36	1-164-006-11	CERAMIC CHIP	0.33uF	10%	16V
C37	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C38	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C39	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C40	1-163-119-00	CERAMIC CHIP	120PF	5%	50V
C41	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C42	1-163-097-00	CERAMIC CHIP	15PF	5%	50V
C43	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C44	1-124-229-00	ELECT	33uF	20%	10V
C45	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C46	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C47	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C48	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C49	1-163-099-00	CERAMIC CHIP	18PF	5%	50V
C50	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C51	1-164-704-91	CERAMIC CHIP (XR-U882)	0.0033uF	5%	50V
C52	1-163-245-11	CERAMIC CHIP (XR-U882)	56PF	5%	50V
C53	1-126-163-11	ELECT (XR-U882)	4.7uF	20%	50V
C54	1-136-163-00	FILM (XR-U882)	0.068uF	5%	50V
C55	1-136-163-00	FILM (XR-U882)	0.068uF	5%	50V
C56	1-163-038-00	CERAMIC CHIP (XR-U882)	0.1uF		25V
C57	1-163-809-11	CERAMIC CHIP (XR-U882)	0.047uF	10%	25V
C58	1-163-809-11	CERAMIC CHIP (XR-U882)	0.047uF	10%	25V
C59	1-163-038-00	CERAMIC CHIP (XR-U882)	0.1uF		25V
C60	1-163-809-11	CERAMIC CHIP (XR-U882)	0.047uF	10%	25V
C61	1-163-038-00	CERAMIC CHIP (XR-U882)	0.1uF		25V
C62	1-163-833-00	CERAMIC CHIP (XR-U882)	0.068uF		25V
C63	1-163-833-00	CERAMIC CHIP (XR-U882)	0.068uF		25V
C64	1-135-177-21	TANTALUM CHIP	1uF	20%	20V
C65	1-135-177-21	TANTALUM CHIP	1uF	20%	20V
C66	1-163-077-00	CERAMIC CHIP	0.1uF	10%	25V
C67	1-126-294-11	ELECT	4.7uF	20%	35V
C68	1-110-351-11	MYLAR	0.001uF	5%	50V
C69	1-164-006-11	CERAMIC CHIP	0.33uF	10%	16V
C70	1-164-343-11	CERAMIC CHIP	0.056uF	10%	25V
C71	1-128-172-11	ELECT	47uF	20%	6.3V
C72	1-124-257-00	ELECT	2.2uF	20%	50V
C73	1-163-157-00	FILM	0.022uF	5%	50V
C74	1-163-157-00	FILM	0.022uF	5%	50V
C75	1-163-077-00	CERAMIC CHIP	0.1uF	10%	25V
C76	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C77	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C78	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C79	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C80	1-164-182-11	CERAMIC CHIP	0.0033uF	10%	50V
C81	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C82	1-163-833-00	CERAMIC CHIP	0.068uF		25V
C83	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C84	1-135-177-21	TANTALUM CHIP	1uF	20%	20V
C85	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C86	1-163-103-00	CERAMIC CHIP	27PF	5%	50V
C87	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C88	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C89	1-163-263-11	CERAMIC CHIP	330PF	5%	50V
C90	1-163-077-00	CERAMIC CHIP	0.1uF	10%	25V
C91	1-136-169-00	FILM	0.22uF	5%	50V
C92	1-163-077-00	CERAMIC CHIP	0.1uF	10%	25V
C93	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C94	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C95	1-126-157-11	ELECT	10uF	20%	16V
C96	1-164-695-11	CERAMIC CHIP	0.0022uF	5%	50V
C97	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C98	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C99	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C110	1-136-173-00	FILM	0.47uF	5%	50V
C111	1-130-475-00	MYLAR	0.0022uF	5%	50V
C112	1-130-475-00	MYLAR	0.0022uF	5%	50V
C113	1-128-341-11	ELECT	0.56uF	20%	50V
C114	1-124-252-00	ELECT	0.33uF	20%	50V
C121	1-126-294-11	ELECT	4.7uF	20%	35V
C122	1-126-295-11	ELECT	10uF	20%	35V

MAIN DIVER RDS ARI

Ref. No.	Part No.	Description			Remark
C123	1-126-295-11	ELECT	10uF	20%	35V
C124	1-126-295-11	ELECT	10uF	20%	35V
C125	1-126-295-11	ELECT	10uF	20%	35V
C126	1-126-295-11	ELECT	10uF	20%	35V
C127	1-130-476-00	MYLAR	0.0027uF	5%	50V
C128	1-136-162-00	FILM	0.056uF	5%	50V
C129	1-136-162-00	FILM	0.056uF	5%	50V
C130	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C131	1-126-295-11	ELECT	10uF	20%	35V
C132	1-126-300-11	ELECT	0.47uF	20%	50V
C133	1-130-476-00	MYLAR	0.0027uF	5%	50V
C134	1-163-105-00	CERAMIC CHIP	33PF	5%	50V
C135	1-126-294-11	ELECT	4.7uF	20%	35V
C136	1-163-105-00	CERAMIC CHIP	33PF	5%	50V
C137	1-126-294-11	ELECT	4.7uF	20%	35V
C139	1-126-277-11	ELECT	100uF	20%	10V
C140	1-131-375-00	TANTALUM	4.7uF	20%	10V
C210	1-136-173-00	FILM	0.47uF	5%	50V
C211	1-130-475-00	MYLAR	0.0022uF	5%	50V
C212	1-130-475-00	MYLAR	0.0022uF	5%	50V
C213	1-128-341-11	ELECT	0.56uF	20%	50V
C214	1-124-252-00	ELECT	0.33uF	20%	50V
C221	1-126-294-11	ELECT	4.7uF	20%	35V
C222	1-126-295-11	ELECT	10uF	20%	35V
C223	1-126-295-11	ELECT	10uF	20%	35V
C224	1-126-295-11	ELECT	10uF	20%	35V
C225	1-126-295-11	ELECT	10uF	20%	35V
C226	1-126-295-11	ELECT	10uF	20%	35V
C227	1-130-476-00	MYLAR	0.0027uF	5%	50V
C228	1-136-162-00	FILM	0.056uF	5%	50V
C229	1-136-162-00	FILM	0.056uF	5%	50V
C230	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C231	1-126-295-11	ELECT	10uF	20%	35V
C232	1-126-300-11	ELECT	0.47uF	20%	50V
C233	1-130-476-00	MYLAR	0.0027uF	5%	50V
C234	1-163-105-00	CERAMIC CHIP	33PF	5%	50V
C235	1-126-294-11	ELECT	4.7uF	20%	35V
C236	1-163-105-00	CERAMIC CHIP	33PF	5%	50V
C237	1-126-294-11	ELECT	4.7uF	20%	35V
C239	1-126-277-11	ELECT	100uF	20%	10V
C240	1-131-375-00	TANTALUM	4.7uF	20%	10V
C310	1-126-277-11	ELECT	100uF	20%	10V
C311	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C312	1-126-295-11	ELECT	10uF	20%	35V
C313	1-126-295-11	ELECT	10uF	20%	35V
C321	1-126-301-11	ELECT	1uF	20%	50V
C322	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C323	1-126-277-11	ELECT	100uF	20%	10V
C324	1-163-038-00	CERAMIC CHIP	0.1uF		25V

Ref. No.	Part No.	Description			Remark
C325	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C326	1-163-081-00	CERAMIC CHIP	0.22uF		25V
C431	1-126-935-11	ELECT	470uF	20%	16V
C432	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C433	1-126-157-11	ELECT	10uF	20%	16V
C501	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C502	1-163-227-11	CERAMIC CHIP	10PF	5%	50V
C503	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C506	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C509	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C511	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C513	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C514	1-135-177-21	TANTALUM CHIP	1uF	20%	20V
C515	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C516	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C517	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C518	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C519	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C521	1-126-277-11	ELECT	100uF	20%	10V
C522	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C524	1-126-277-11	ELECT	100uF	20%	10V
C525	1-124-589-11	ELECT	47uF	20%	16V
C526	1-126-301-11	ELECT	1uF	20%	50V
C527	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C528	1-124-234-00	ELECT	22uF	20%	16V
C529	1-126-277-11	ELECT	100uF	20%	10V
C530	1-126-295-11	ELECT	10uF	20%	35V
C531	1-126-925-11	ELECT	470uF	20%	10V
C533	1-126-277-11	ELECT	100uF	20%	10V
C534	1-164-232-11	CERAMIC CHIP	0.01uF	10%	50V
C535	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C536	1-126-157-11	ELECT	10uF	20%	16V
C537	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C538	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C539	1-126-294-11	ELECT	4.7uF	20%	35V
C540	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C541	1-125-486-11	DUBLE LAYERS	0.22F		5.5V
C542	1-126-277-11	ELECT	100uF	20%	10V
C543	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C544	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C545	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C546	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C548	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C549	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C550	1-126-277-11	ELECT	100uF	20%	10V
C551	1-164-182-11	CERAMIC CHIP	0.0033uF	10%	50V
C552	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C553	1-126-157-11	ELECT	10uF	20%	16V
C554	1-126-162-11	ELECT	3.3uF	20%	50V

Ref. No.	Part No.	Description	Remark
C555	1-163-038-00	CERAMIC CHIP 0.1uF 25V	
C556	1-163-038-00	CERAMIC CHIP 0.1uF 25V	
C557	1-135-177-21	TANTAL CHIP 1uF 10% 20V	
C558	1-135-177-21	TANTAL CHIP 1uF 10% 20V	
C559	1-164-232-11	CERAMIC CHIP 0.01uF 10% 50V	
C591	1-126-157-11	ELECT 10uF 20% 16V	
C592	1-163-081-00	CERAMIC CHIP 0.22uF 25V	
C593	1-164-232-11	CERAMIC CHIP 0.01uF 50V	
C594	1-163-038-00	CERAMIC CHIP 0.1uF 25V	
C595	1-163-038-00	CERAMIC CHIP 0.1uF 25V	
		< CERAMIC FILTER >	
CF10	1-567-415-11	FILTER, CERAMIC	
CF11	1-567-415-11	FILTER, CERAMIC	
CF20	1-567-415-11	FILTER, CERAMIC	
		< CONNECTOR >	
CN10	* 1-573-607-11	CONNECTOR, L TYPE 6P	
CN40	* 1-573-608-11	CONNECTOR, L TYPE 7P	
CN50	* 1-566-454-11	CONNECTOR, L TYPE 8P (XR-U882)	
CNP332	1-569-363-21	CONNECTOR, FPC 15P	
CNP333	* 1-506-988-11	PIN, CONNECTOR (PC BOARD) 6P	
CNP334	* 1-506-985-11	PIN, CONNECTOR (PC BOARD) 3P	
CNP335	* 1-580-915-11	SOCKET, CONNECTOR 6P	
CNP431	* 1-580-920-11	HOUSING, CONNECTOR 7P	
CNP433	* 1-506-984-11	PIN, CONNECTOR (PC BOARD) 2P	
CNP531	* 1-580-911-11	HOUSING, CONNECTOR 11P	
CNP532	1-580-907-11	PLUG, CONNECTOR	
CNP533	* 1-506-984-11	PIN, CONNECTOR (PC BOARD) 2P	
CNP534	* 1-506-985-11	PIN, CONNECTOR (PC BOARD) 3P	
CNP535	* 1-506-985-11	PIN, CONNECTOR (PC BOARD) 3P	
CNP536	1-564-187-00	PIN, CONNECTOR	
		< DIODE >	
D1	8-719-800-76	DIODE 1SS226	
D2	8-719-976-31	DIODE 1SS332	
D10	8-719-800-76	DIODE 1SS226	
D11	8-719-989-95	DIODE 1SV154	
D12	8-716-976-31	DIODE 1SS332	
D20	8-719-800-75	DIODE 1SS226	
D21	8-719-989-96	DIODE 1SV154	
D22	8-716-976-31	DIODE 1SS332	
D50	8-719-976-31	DIODE 1SS332 (XR-U882)	
D60	8-719-976-31	DIODE 1SS332	
D61	8-719-800-76	DIODE 1SS226	
D62	8-719-976-31	DIODE 1SS332	
D63	8-719-400-18	DIODE MA152WK	
D320	8-719-400-18	DIODE MA152WK	
D321	8-719-800-76	DIODE 1SS226	
D322	8-719-976-83	DIODE DTZ3.6	
D431	8-719-976-31	DIODE 1SS332	
D432	8-719-976-31	DIODE 1SS332	
D433	8-719-400-18	DIODE MA152WK	
D434	8-719-977-25	DIODE DTZ9.1C	
D501	8-719-976-31	DIODE 1SS332	
D502	8-719-976-31	DIODE 1SS332	
D503	8-719-400-18	DIODE MA152WK	
D504	8-719-976-31	DIODE 1SS332	
D505	8-719-400-18	DIODE MA152WK	
D506	8-719-976-31	DIODE 1SS332	
D507	8-719-976-31	DIODE 1SS332	
D508	8-719-976-31	DIODE 1SS332	
D509	8-719-400-18	DIODE MA152WK	
D510	8-719-977-07	DIODE DTZ6.2B	
D511	8-719-977-07	DIODE DTZ6.2B	
D512	8-719-976-31	DIODE 1SS332	
D513	8-719-977-07	DIODE DTZ6.2B	
D514	8-719-977-07	DIODE DTZ6.2B	
D515	8-719-400-18	DIODE MA152WK	
D516	8-719-977-07	DIODE DTZ6.2B	
D517	8-719-104-34	DIODE 1S2836	
D518	8-719-976-31	DIODE 1SS332	
D519	8-719-977-16	DIODE DTZ7.5B	
D520	8-719-976-31	DIODE 1SS332	
D521	8-719-978-05	DIODE DTZ3.6	
D522	8-719-977-25	DIODE DTZ9.1C	
D523	8-719-977-03	DIODE DTZ5.6B	
D524	8-719-977-32	DIODE DTZ11B	
D525	8-719-976-31	DIODE 1SS332	
D526	8-719-977-16	DIODE DTZ7.5B	
D529	8-719-977-25	DIODE DTZ9.1C	
D530	8-719-400-18	DIODE MA152WK	
D531	8-719-977-07	DIODE DTZ6.2B	
D532	8-719-976-31	DIODE 1SS332	
D533	8-719-977-25	DIODE DTZ9.1C	
D535	8-719-977-16	DIODE DTZ7.5B	
D534	8-719-977-07	DIODE DTZ6.2B	
D536	8-719-977-16	DIODE DTZ7.5B	
D537	8-719-977-28	DIODE DTZ10B	
		< IC >	
IC1	8-759-823-81	IC LC7216M	
IC10	8-759-201-36	IC TA7303P	
IC11	8-759-509-91	IC XRA10393F	
IC20	8-759-201-36	IC TA7303P	
IC40	8-759-514-80	IC TBA120U	
IC41	8-759-514-78	IC SAF7579T	
IC42	8-759-823-84	IC LC7071NM	

MAIN **DIVER** **RDS** **ARI**

Ref. No.	Part No.	Description	Remark
IC50	8-759-998-24	IC TDA1579T (XR-U882)	
IC51	8-759-981-92	IC RC4558M (XR-U882)	
IC60	8-759-246-22	IC TA8172AF	
IC61	8-759-970-89	IC BA10358F	
IC121	8-759-711-85	IC NJM4580E-D	
IC122	8-759-711-85	IC NJM4580E-D	
IC123	8-759-711-85	IC NJM4580E-D	
IC221	8-759-711-85	IC NJM4580E-D	
IC222	8-759-711-85	IC NJM4580E-D	
IC223	8-759-711-85	IC NJM4580E-D	
IC311	8-752-055-10	IC CXA1332M	
IC321	8-759-820-15	IC LC7537AN	
IC322	8-759-711-85	IC NJM4580E-D	
IC431	8-759-823-87	IC LB1638M	
IC501	8-759-155-03	IC uPD75116GF-E47-3BE	
IC502	8-759-154-93	IC uPD75116GF-E23-3BE	
IC503	8-759-513-44	IC X24C16SI	
IC504	8-759-940-45	IC S-8054HN-CB	
IC505	8-759-823-87	IC LB1638M	
IC506	8-759-710-82	IC NJM2406F	

< CONNECTOR >

Ref. No.	Part No.	Description	Remark
J1	* 1-563-961-11	SOCKET, CONNECTOR	
J2	* 1-563-961-11	SOCKET, CONNECTOR	

< JUMPER >

Ref. No.	Part No.	Description	Remark
JR1	1-216-295-00	METAL CHIP 0 5% 1/10W (XR-U881)	
JR60	1-216-296-00	METAL GLAZE 0 5% 1/8W	
JR500	1-216-295-00	METAL CHIP 0 5% 1/10W (XR-U882)	
JR518	1-216-295-00	METAL CHIP 0 5% 1/10W (XR-U881)	
JR527	1-216-295-00	METAL CHIP 0 5% 1/10W (XR-U881)	
JR548	1-216-295-00	METAL CHIP 0 5% 1/10W (XR-U881)	

< COIL >

Ref. No.	Part No.	Description	Remark
L1	1-410-196-11	INDUCTOR CHIP 2.2mH (XR-U882)	
L1	1-410-200-31	INDUCTOR CHIP 4.7uH (XR-U881)	
L2	1-412-516-21	INDUCTOR 22mH (XR-U881)	
L3	1-410-204-31	INDUCTOR CHIP 10uH	
L4	1-410-204-31	INDUCTOR CHIP 10uH	
L5	1-410-184-51	INDUCTOR CHIP 0.22uH	
L6	1-410-184-51	INDUCTOR CHIP 0.22uH	
L10	1-410-204-31	INDUCTOR CHIP 10uH	
L11	1-408-798-00	INDUCTOR CHIP 1mH	
L12	1-410-204-31	INDUCTOR CHIP 10uH	
L13	1-410-204-31	INDUCTOR CHIP 10uH	
L20	1-410-204-31	INDUCTOR CHIP 10uH	
L21	1-408-798-00	INDUCTOR CHIP 1mH	
L50	1-424-036-11	COIL (FILTER) (XR-U882)	
L60	1-408-798-00	INDUCTOR CHIP 1mH	
L61	1-410-196-11	INDUCTOR CHIP 2.2uH	
L62	1-410-204-31	INDUCTOR CHIP 10uH	
L501	1-410-204-31	INDUCTOR CHIP 10uH	
L502	1-410-204-31	INDUCTOR CHIP 10uH	

< TRANSISTOR >

Ref. No.	Part No.	Description	Remark
Q1	8-729-901-00	TRANSISTOR DTC124EK	
Q2	8-729-901-00	TRANSISTOR DTC124EK	
Q3	8-729-809-71	TRANSISTOR 2SK536	
Q4	8-729-901-04	TRANSISTOR DTA114EK	
Q10	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q11	8-729-901-04	TRANSISTOR DTA114EK	
Q12	8-729-304-14	TRANSISTOR 2SK360E	
Q13	8-729-920-41	TRANSISTOR FMC3	
Q20	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q21	8-729-901-04	TRANSISTOR DTA114EK	
Q23	8-729-920-41	TRANSISTOR FMC3	
Q40	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q41	8-729-216-22	TRANSISTOR 2SA1162-G	
Q60	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q61	8-729-920-21	TRANSISTOR DTC314TKH04	
Q62	8-729-920-21	TRANSISTOR DTC314TKH04	
Q63	8-729-900-53	TRANSISTOR DTC114EK	
Q121	8-729-920-21	TRANSISTOR DTC314TKH04	
Q122	8-729-920-21	TRANSISTOR DTC314TKH04	
Q124	8-729-920-21	TRANSISTOR DTC314TKH04	
Q221	8-729-920-21	TRANSISTOR DTC314TKH04	
Q222	8-729-920-21	TRANSISTOR DTC314TKH04	
Q224	8-729-920-21	TRANSISTOR DTC314TKH04	
Q311	8-729-920-56	TRANSISTOR FMG1	
Q431	8-729-106-60	TRANSISTOR 2SB1115A	
Q432	8-729-900-53	TRANSISTOR DTC114EK	
Q433	8-729-921-48	TRANSISTOR 2SD1760F5-Q	
Q434	8-729-920-41	TRANSISTOR FMC3	
Q501	8-729-216-22	TRANSISTOR 2SA1162-G	
Q502	8-729-216-22	TRANSISTOR 2SA1162-G	
Q503	8-729-903-10	TRANSISTOR FMW1	
Q504	8-729-907-26	TRANSISTOR IMX1	
Q505	8-729-903-10	TRANSISTOR FMW1	
Q506	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q507	8-729-216-22	TRANSISTOR 2SA1162-G	
Q508	8-729-216-22	TRANSISTOR 2SA1162-G	
Q509	8-729-216-22	TRANSISTOR 2SA1162-G	
Q510	8-729-216-22	TRANSISTOR 2SA1162-G	
Q511	8-729-900-53	TRANSISTOR DTC114EK	
Q512	8-729-920-41	TRANSISTOR FMC3	
Q513	8-729-920-41	TRANSISTOR FMC3	
Q514	8-729-904-63	TRANSISTOR DTB123YK	
Q515	8-729-904-63	TRANSISTOR DTB123YK	

Ref. No.	Part No.	Description				Remark
Q516	8-729-904-63	TRANSISTOR DTB123YK				
Q517	8-729-904-63	TRANSISTOR DTB123YK				
Q518	8-729-106-68	TRANSISTOR 2SD1615A-GP				
Q519	8-729-903-10	TRANSISTOR FMW1				
Q520	8-729-931-07	TRANSISTOR 2SD1759F5				
Q521	8-729-921-48	TRANSISTOR 2SD1760F5-Q				
Q522	8-729-105-29	TRANSISTOR 2SA1385				
Q523	8-729-105-29	TRANSISTOR 2SA1385				
Q524	8-729-920-28	TRANSISTOR FMG9				
Q525	8-729-921-48	TRANSISTOR 2SD1760F5-Q				
Q526	8-729-106-60	TRANSISTOR 2SB1115A				
Q527	8-729-901-04	TRANSISTOR DTA114EK				
Q528	8-729-921-48	TRANSISTOR 2SD1760F5-Q				
Q529	8-729-921-48	TRANSISTOR 2SD1760F5-Q				
Q530	8-729-120-28	TRANSISTOR 2SC1623-L5L6				
Q531	8-729-920-41	TRANSISTOR FMC3				
Q532	8-729-921-48	TRANSISTOR 2SD1760F5-Q				
Q533	8-729-900-53	TRANSISTOR DTC114EK				
Q534	8-729-106-60	TRANSISTOR 2SB1115A				
Q535	8-729-120-28	TRANSISTOR 2SC1623-L5L6				
		< RESISTOR >				
R1	1-216-041-00	METAL CHIP	470	5%	1/10W	
R2	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R3	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R4	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R5	1-216-063-00	METAL CHIP	3.9K	5%	1/10W	
R6	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R7	1-216-061-00	METAL CHIP	3.3K	5%	1/10W	
R8	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R9	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R10	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R11	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R12	1-216-105-00	METAL CHIP	220K	5%	1/10W	
R13	1-216-017-00	METAL CHIP	47	5%	1/10W	
R14	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R15	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R16	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R17	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R18	1-216-121-00	METAL CHIP	1M	5%	1/10W	
R20	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R21	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R22	1-216-105-00	METAL CHIP	220K	5%	1/10W	
R23	1-216-017-00	METAL CHIP	47	5%	1/10W	
R24	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R25	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R26	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R27	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R28	1-216-121-00	METAL CHIP	1M	5%	1/10W	
R30	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R31	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R32	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R33	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R34	1-216-039-00	METAL CHIP	390	5%	1/10W	
R35	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R40	1-216-101-00	METAL CHIP	150K	5%	1/10W	
R41	1-216-093-00	METAL CHIP	68K	5%	1/10W	
R42	1-216-055-00	METAL CHIP	1.8K	5%	1/10W	
R43	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R44	1-216-025-00	METAL CHIP	100	5%	1/10W	
R45	1-216-089-00	METAL CHIP	47K	5%	1/10W	
R46	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R47	1-216-105-00	METAL CHIP	220K	5%	1/10W	
R48	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R50	1-216-093-00	METAL CHIP (XR-U882)	68K	5%	1/10W	
R51	1-216-089-00	METAL CHIP (XR-U882)	47K	5%	1/10W	
R52	1-216-041-00	METAL CHIP (XR-U882)	470	5%	1/10W	
R53	1-216-065-00	METAL CHIP (XR-U882)	4.7K	5%	1/10W	
R54	1-216-097-00	METAL CHIP (XR-U882)	100K	5%	1/10W	
R55	1-216-105-00	METAL CHIP (XR-U882)	220K	5%	1/10W	
R56	1-216-117-00	METAL CHIP (XR-U882)	680K	5%	1/10W	
R57	1-216-116-00	METAL GLAZE (XR-U882)	620K	5%	1/10W	
R58	1-216-089-00	METAL CHIP (XR-U882)	47K	5%	1/10W	
R59	1-216-075-00	METAL CHIP (XR-U882)	12K	5%	1/10W	
R60	1-216-085-00	METAL CHIP (XR-U882)	33K	5%	1/10W	
R61	1-216-106-00	METAL CHIP (XR-U882)	240K	5%	1/10W	
R62	1-216-095-00	METAL CHIP (XR-U882)	82K	5%	1/10W	
R63	1-216-845-11	METAL CHIP	100K	5%	1/16W	
R64	1-216-845-11	METAL CHIP (XR-U882)	100K	5%	1/16W	
R65	1-216-845-11	METAL CHIP (XRU-882)	100K	5%	1/16W	
R66	1-216-845-11	METAL CHIP	100K	5%	1/16W	
R67	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R68	1-249-437-11	CARBON	47K	5%	1/4W	
R69	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R70	1-216-073-00	METAL CHIP	10K	5%	1/10W	

MAIN **DIVER** **RDS** **ARI**

Ref. No.	Part No.	Description			Remark
R71	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R72	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R73	1-216-075-00	METAL CHIP	12K	5%	1/10W
R74	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R75	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R76	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R77	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R78	1-216-039-00	METAL CHIP	390	5%	1/10W
R79	1-216-105-00	METAL CHIP	220K	5%	1/10W
R80	1-216-017-00	METAL CHIP	47	5%	1/10W
R81	1-216-683-11	METAL CHIP	22K	0.5%	1/10W
R82	1-216-049-00	METAL CHIP	1K	5%	1/10W
R83	1-216-687-11	METAL CHIP	33K	0.5%	1/10W
R84	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R85	1-216-055-00	METAL CHIP	1.8K	5%	1/10W
R86	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R87	1-216-046-00	METAL CHIP	750	5%	1/10W
R88	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R89	1-216-075-00	METAL CHIP	12K	5%	1/10W
R90	1-216-073-00	METAL CHIP	10K	5%	1/10W
R91	1-216-073-00	METAL CHIP	10K	5%	1/10W
R92	1-216-748-11	METAL CHIP (XR-U882)	39K	5%	1/10W
R92	1-216-685-11	METAL CHIP (XR-U881)	27K	0.5%	1/10W
R110	1-216-687-11	METAL CHIP	33K	0.5%	1/10W
R111	1-216-684-11	METAL CHIP	24K	0.5%	1/10W
R112	1-216-645-11	METAL CHIP (XR-U881)	560	0.5%	1/10W
R120	1-216-687-11	METAL CHIP	33K	0.5%	1/10W
R121	1-216-679-11	METAL CHIP	15K	0.5%	1/10W
R122	1-216-067-00	METAL CHIP (XR-U882)	5.6K	5%	1/10W
R122	1-216-071-00	METAL CHIP (XR-U881)	8.2K	5%	1/10W
R123	1-216-679-11	METAL CHIP	15K	0.5%	1/10W
R124	1-216-683-11	METAL CHIP	22K	0.5%	1/10W
R125	1-216-121-00	METAL CHIP	1M	5%	1/10W
R126	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R127	1-216-679-11	METAL CHIP	15K	0.5%	1/10W
R128	1-216-121-00	METAL CHIP	1M	5%	1/10W
R129	1-216-073-00	METAL CHIP	10K	5%	1/10W
R130	1-216-121-00	METAL CHIP	1M	5%	1/10W
R131	1-216-679-11	METAL CHIP	15K	0.5%	1/10W
R132	1-216-683-11	METAL CHIP	22K	0.5%	1/10W
R133	1-216-649-11	METAL CHIP	820	0.5%	1/10W
R134	1-216-683-11	METAL CHIP	22K	0.5%	1/10W
R135	1-216-679-11	METAL CHIP	15K	0.5%	1/10W
R136	1-216-683-11	METAL CHIP	22K	0.5%	1/10W
R137	1-216-649-11	METAL CHIP	820	0.5%	1/10W
R138	1-216-683-11	METAL CHIP	22K	0.5%	1/10W
R141	1-216-073-00	METAL CHIP	10K	5%	1/10W
R142	1-216-073-00	METAL CHIP	10K	5%	1/10W
R143	1-216-649-11	METAL GLAZE	820	0.5%	1/10W
R144	1-215-469-00	METAL FILM	100K	1%	1/4W
R210	1-216-687-11	METAL CHIP	33K	0.5%	1/10W
R211	1-216-684-11	METAL CHIP	24K	0.5%	1/10W
R212	1-216-645-11	METAL CHIP	560	0.5%	1/10W
R220	1-216-687-11	METAL CHIP	33K	0.5%	1/10W
R221	1-216-679-11	METAL CHIP	15K	0.5%	1/10W
R222	1-216-067-00	METAL CHIP (XR-U882)	5.6K	5%	1/10W
R222	1-216-071-00	METAL CHIP (XR-U881)	8.2K	5%	1/10W
R223	1-216-679-11	METAL CHIP	15K	0.5%	1/10W
R224	1-216-683-11	METAL CHIP	22K	0.5%	1/10W
R225	1-216-121-00	METAL CHIP	1M	5%	1/10W
R226	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R227	1-216-679-11	METAL CHIP	15K	0.5%	1/10W
R228	1-216-121-00	METAL CHIP	1M	5%	1/10W
R229	1-216-073-00	METAL CHIP	10K	5%	1/10W
R230	1-216-121-00	METAL CHIP	1M	5%	1/10W
R231	1-216-679-11	METAL CHIP	15K	0.5%	1/10W
R232	1-216-683-11	METAL CHIP	22K	0.5%	1/10W
R233	1-216-649-11	METAL CHIP	820	0.5%	1/10W
R234	1-216-683-11	METAL CHIP	22K	0.5%	1/10W
R235	1-216-679-11	METAL CHIP	15K	0.5%	1/10W
R236	1-216-683-11	METAL CHIP	22K	0.5%	1/10W
R237	1-216-649-11	METAL CHIP	820	0.5%	1/10W
R238	1-216-683-11	METAL CHIP	22K	0.5%	1/10W
R241	1-216-073-00	METAL CHIP	10K	5%	1/10W
R242	1-216-073-00	METAL CHIP	10K	5%	1/10W
R243	1-216-649-11	METAL GLAZE	820	0.5%	1/10W
R244	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R310	1-216-049-00	METAL CHIP	1K	5%	1/10W
R311	1-216-685-11	METAL CHIP	27K	0.5%	1/10W
R312	1-216-073-00	METAL CHIP	10K	5%	1/10W
R313	1-216-833-11	METAL CHIP	10K	5%	1/16W
R314	1-216-073-00	METAL CHIP	10K	5%	1/10W
R320	1-216-089-00	METAL CHIP	47K	5%	1/10W
R321	1-216-073-00	METAL CHIP	10K	5%	1/10W
R322	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R431	1-216-073-00	METAL CHIP	10K	5%	1/10W
R432	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R433	1-220-149-91	METAL GLAZE	2.2	10%	1/2W
R434	1-216-049-00	METAL CHIP	1K	5%	1/10W
R501	1-216-845-11	METAL CHIP	100K	5%	1/16W
R502	1-216-845-11	METAL CHIP	100K	5%	1/16W
R503	1-216-845-11	METAL CHIP	100K	5%	1/16W

Ref. No.	Part No.	Description			Remark
R504	1-216-845-11	METAL CHIP	100K	5%	1/16W
R505	1-216-841-11	METAL CHIP	47K	5%	1/16W
R506	1-216-845-11	METAL CHIP	100K	5%	1/16W
R507	1-216-845-11	METAL CHIP	100K	5%	1/16W
R508	1-216-845-11	METAL CHIP	100K	5%	1/16W
R509	1-216-097-00	METAL CHIP	100K	5%	1/10W
R510	1-216-845-11	METAL CHIP	100K	5%	1/16W
R511	1-216-845-11	METAL CHIP	100K	5%	1/16W
R512	1-216-845-11	METAL CHIP	100K	5%	1/16W
R513	1-216-845-11	METAL CHIP	100K	5%	1/16W
R514	1-216-845-11	METAL CHIP	100K	5%	1/16W
R515	1-216-097-00	METAL CHIP	100K	5%	1/10W
R516	1-216-845-11	METAL CHIP	100K	5%	1/16W
R517	1-216-845-11	METAL CHIP	100K	5%	1/16W
R518	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R520	1-216-025-00	METAL CHIP	100	5%	1/10W
R521	1-216-841-11	METAL CHIP	47K	5%	1/16W
R522	1-216-841-11	METAL CHIP	47K	5%	1/16W
R523	1-216-841-11	METAL CHIP	47K	5%	1/16W
R524	1-216-174-00	METAL GLAZE	100	5%	1/8W
R525	1-216-089-00	METAL CHIP	47K	5%	1/10W
R526	1-216-089-00	METAL CHIP	47K	5%	1/10W
R527	1-216-174-00	METAL GLAZE	100	5%	1/8W
R528	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R529	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R530	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R531	1-216-081-00	METAL CHIP	22K	5%	1/10W
R532	1-216-833-11	METAL CHIP	10K	5%	1/16W
R533	1-216-081-00	METAL CHIP	22K	5%	1/10W
R534	1-216-833-11	METAL CHIP	10K	5%	1/16W
R535	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R536	1-216-841-11	METAL CHIP	47K	5%	1/16W
R537	1-216-049-00	METAL CHIP	1K	5%	1/10W
R538	1-216-049-00	METAL CHIP	1K	5%	1/10W
R539	1-216-081-00	METAL CHIP	22K	5%	1/10W
R540	1-216-063-00	METAL CHIP	3.9K	5%	1/10W
R541	1-216-174-00	METAL GLAZE	100	5%	1/8W
R542	1-216-841-11	METAL CHIP	47K	5%	1/16W
R543	1-216-841-11	METAL CHIP	47K	5%	1/16W
R544	1-216-073-00	METAL CHIP	10K	5%	1/10W
R545	1-216-049-00	METAL CHIP	1K	5%	1/10W
R546	1-216-089-00	METAL CHIP	47K	5%	1/10W
R547	1-216-089-00	METAL CHIP	47K	5%	1/10W
R548	1-216-097-00	METAL CHIP	100K	5%	1/10W
R549	1-216-687-11	METAL CHIP	33K	0.5%	1/10W
R550	1-216-089-00	METAL CHIP	47K	5%	1/10W
R551	1-216-089-00	METAL CHIP	47K	5%	1/10W
R552	1-216-089-00	METAL CHIP	47K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R553	1-216-089-00	METAL CHIP	47K	5%	1/10W
R554	1-216-089-00	METAL CHIP	47K	5%	1/10W
R555	1-216-017-00	METAL CHIP	47	5%	1/10W
R556	1-216-073-00	METAL CHIP	10K	5%	1/10W
R557	1-216-089-00	METAL CHIP	47K	5%	1/10W
R558	1-216-091-00	METAL CHIP	56K	5%	1/10W
R559	1-216-089-00	METAL CHIP	47K	5%	1/10W
R560	1-216-845-11	METAL CHIP	100K	5%	1/16W
R561	1-216-845-11	METAL CHIP	100K	5%	1/16W
R562	1-216-049-00	METAL CHIP	1K	5%	1/10W
R563	1-220-150-91	METAL GLAZE	680	10%	1/2W
R564	1-216-049-00	METAL CHIP	1K	5%	1/10W
R565	1-220-150-91	METAL GLAZE	680	10%	1/2W
R566	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R567	1-216-041-00	METAL CHIP	470	5%	1/10W
R568	1-216-833-11	METAL CHIP	10K	5%	1/16W
R569	1-216-049-00	METAL CHIP	1K	5%	1/10W
R570	1-216-222-00	METAL GLAZE	10K	5%	1/8W
R571	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W
R572	1-216-089-00	METAL CHIP	47K	5%	1/10W
R573	1-216-089-00	METAL CHIP	47K	5%	1/10W
R574	1-216-083-00	METAL CHIP	27K	5%	1/10W
R575	1-216-097-00	METAL CHIP	100K	5%	1/10W
R576	1-216-089-00	METAL CHIP	47K	5%	1/10W
R578	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R579	1-216-041-00	METAL CHIP	470	5%	1/10W
R580	1-216-041-00	METAL CHIP	470	5%	1/10W
R581	1-216-845-11	METAL CHIP	100K	5%	1/16W
R582	1-216-845-11	METAL CHIP	100K	5%	1/16W
R583	1-216-845-11	METAL CHIP	100K	5%	1/16W
R584	1-216-845-11	METAL CHIP	100K	5%	1/16W
R585	1-216-845-11	METAL CHIP	100K	5%	1/16W
R586	1-216-833-11	METAL CHIP	10K	5%	1/16W
R587	1-216-059-00	METAL CHIP	2.7K	5%	1/10W
R588	1-216-073-00	METAL CHIP	10K	5%	1/10W
R589	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R590	1-216-845-11	METAL CHIP	100K	5%	1/16W
R591	1-216-049-00	METAL CHIP	1K	5%	1/10W
R592	1-218-279-11	METAL GLAZE	12	5%	1/2W
R593	1-218-279-11	METAL GLAZE	12	5%	1/2W
R594	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R595	1-216-841-11	METAL CHIP	47K	5%	1/16W
R596	1-216-841-11	METAL CHIP	47K	5%	1/16W
R597	1-216-845-11	METAL CHIP	100K	5%	1/16W
R598	1-216-845-11	METAL CHIP	100K	5%	1/16W
R599	1-216-073-00	METAL CHIP	10K	5%	1/10W
R600	1-216-057-00	METAL GLAZE	2.2K	10%	1/10W
R601	1-216-049-00	METAL GLAZE	1K	10%	1/10W

< VARIABLE RESISTOR >

Ref. No.	Part No.	Description	Remark
RV1	1-238-601-11	RES, ADJ, CARBON 22K	
RV50	1-241-551-11	RES, ADJ, CERMET 100 (XR-U882)	
RV60	1-238-604-11	RES, ADJ, CARBON 220K	
RV61	1-238-601-11	RES, ADJ, CARBON 22K	
RV62	1-238-600-11	RES, ADJ, CARBON 10K	

< SWITCH >

Ref. No.	Part No.	Description	Remark
S10	1-572-272-11	SWITCH, SLIDE (FM DIVE RSITY)	
S11	1-572-272-11	SWITCH, SLIDE (MAIN/SUB)	
S501	1-572-272-11	SWITCH, SLIDE (POWER SELECT)	

< BUZZER >

Ref. No.	Part No.	Description	Remark
SP501	1-529-078-11	BUZZER, PIEZOELECTRIC	

< FILTER >

Ref. No.	Part No.	Description	Remark
T40	1-239-009-11	FILTER, BAND PASS	

< TRANSFORMER >

Ref. No.	Part No.	Description	Remark
T60	1-404-955-11	TRANSFORMER, IF	

< TUNER UNIT >

Ref. No.	Part No.	Description	Remark
TU1	1-465-687-11	FRONT END, FM	
TU2	1-465-690-11	TUNER UNIT (MW/SW) (XR-U882)	
TU2	1-465-689-11	TUNER UNIT (MW/LW) (XR-U881)	

< VIBRATOR >

Ref. No.	Part No.	Description	Remark
X1	1-567-848-11	VIBRATOR, CRYSTAL (7.2MHZ)	
X40	1-579-242-11	VIBRATOR, CRYSTAL (4.33MHZ)	
X41	1-567-819-11	VIBRATOR, CERAMIC (4MHZ)	
X60	1-579-279-11	VIBRATOR, CERAMIC (19KHz)	
X501	1-567-821-11	VIBRATOR, CRYSTAL (4.19MHZ)	
X502	1-567-775-11	VIBRATOR, CERAMIC (4.19MHZ)	

****

* 1-639-453-11 REEL BOARD
****

< PHOTO REFLECTOR >

Ref. No.	Part No.	Description	Remark
PH411	8-719-988-14	PHOTO REFLECTOR PR-11-B-T	
PH412	8-719-988-14	PHOTO REFLECTOR PR-11-B-T	

< TRANSISTOR >

Ref. No.	Part No.	Description	Remark
Q411	8-729-904-07	TRANSISTOR FMG2	

< RESISTOR >

Ref. No.	Part No.	Description	Remark
R411	1-216-105-00	METAL CHIP 220K 5% 1/10W	
R412	1-216-105-00	METAL CHIP 220K 5% 1/10W	
R413	1-216-190-00	METAL GLAZE 470 5% 1/8W	

****

* 1-639-454-11 PL BOARD
****

< PLUNGER SOLENOID >

Ref. No.	Part No.	Description	Remark
PM901	1-454-461-11	SOLENOID, PLUNGER	

****

* 1-639-452-11 SENS BOARD
****

< CAPACITOR >

Ref. No.	Part No.	Description	Remark
C421	1-163-081-00	CERAMIC CHIP 0.22uF 25V	

< CONNECTOR >

Ref. No.	Part No.	Description	Remark
CNP421	1-573-006-11	CONNECTOR, FPC (1.0MM) (ZIF)7P	
CNP422	* 1-506-998-11	PIN, CONNECTOR (PC BOARD) 2P	

< DIODE >

Ref. No.	Part No.	Description	Remark
D421	8-719-976-31	DIODE 1SS332	

< PHOTO TRANSISTOR >

Ref. No.	Part No.	Description	Remark
PH421	8-719-987-53	PHOTO TRANSISTOR GP1S37	

< TRANSISTOR >

Ref. No.	Part No.	Description	Remark
Q421	8-729-902-99	TRANSISTOR DTC114TK	

< RESISTOR >

Ref. No.	Part No.	Description	Remark
R421	1-216-186-00	METAL GLAZE 330 5% 1/8W	
R422	1-216-186-00	METAL GLAZE 330 5% 1/8W	
R423	1-216-049-00	METAL CHIP 1K 5% 1/10W	

****

Ref. No.	Part No.	Description	Remark
	* 1-640-209-11	POWER BOARD ***********	
		< CAPACITOR >	
C915	1-130-483-00	MYLAR 0.01uF 5% 50V	
C916	1-130-483-00	MYLAR 0.01uF 5% 50V	
C917	1-124-343-00	ELECT 2200MF 20% 16V	
C918	1-130-483-00	MYLAR 0.01uF 5% 50V	
C919	1-124-589-11	ELECT 47uF 20% 16V	
		< CONNECTOR >	
CN902	* 1-580-913-11	PLUG, CONNECTOR 6P	
		< DIODE >	
D903	8-719-970-02	DIODE 1SR139-400	
D904	8-719-945-59	DIODE DSA3A4	
		< THERMISTOR >	
THP901	1-809-148-11	THERMISTOR, POSITIVE	
THP902	1-809-148-11	THERMISTOR, POSITIVE	
		< CONNECTOR >	
CNP901	* 1-573-384-11	CONNECTOR	

****

Ref. No.	Part No.	Description	Remark
	* 1-640-205-11	RST BOARD *********	
		< DIODE >	
D527	8-719-987-41	DIODE CL-150Y-CD	
D528	8-719-987-41	DIODE CL-150Y-CD	
		< RESISTOR >	
R577	1-216-987-41	METAL CHIP 390 5% 1/10W	
		< SWITCH >	
S503	1-572-474-11	SWITCH, TACTIL (RESRT)	

****

Ref. No.	Part No.	Description	Remark
		MISCELLANEOUS *************	
36	1-590-511-11	CORD (WITH CONNECTOR)	
37	1-590-525-11	CORD (WITH CONNECTOR)	
79	1-590-522-21	CORD (WITH CONNECTOR) 5P	
126	1-635-519-12	PC BOARD, FLEXIBLE	
127	* 1-563-470-11	HOUSING, CONNECTOR 2P	
225	* 1-563-470-11	HOUSING, CONNECTOR 2P	
CNP901	* 1-573-384-11	CONNECTOR	
F1	1-532-457-XX	FUSE 3.15A	
F2	1-532-452-XX	FUSE 1A	
HP901	1-543-800-21	HEAD, MAGNETIC (PLAYBACK)	
M901	X-3344-136-3	CAPSTAN MOTOR SUB ASSY	
M902	X-3362-826-1	GEAR ASSY, MOTOR	
M903	X-3362-835-1	MOTOR BLOCK ASSY	
S504	1-570-883-11	SWITCH, PUSH (2 KEY) (DPO/DPI)	
S902	1-572-397-11	SWITCH, ROTARY SLIDE	

****

ACCESSORIES & PACKING MATERIALS
****

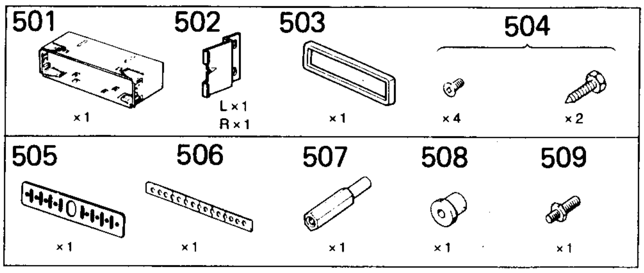
Part No.	Description
1-465-698-11	REMOTE COMMANDER (RM-X30) (XR-U881)
1-465-698-21	REMOTE COMMANDER (RM-X30) (XR-U882)
1-590-503-11	CORD (WITH CONNECTOR) (8P-8P, UNILINK)
1-590-522-21	CORD (WITH CONNECTOR) (5P)
3-336-617-01	BAG, PROTECTION
* 3-355-207-01	CARDBOARD (E)
3-367-590-01	COLLAR
3-753-331-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH, DUTCH) (XR-U881)
3-753-331-41	MANUAL, INSTRUCTION (SWEDISH, ITALIAN, PORTUGUESE) (XR-U881)
3-753-331-51	MANUAL, INSTRUCTION (ENGLISH, FRENCH, GERMAN, ITALIAN) (XR-U882)
3-753-332-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH, DUTCH) (XR-U881)
3-753-332-41	MANUAL, INSTRUCTION (SWEDISH, ITALIAN, PORTUGUESE) (XR-U881)
3-753-332-51	MANUAL, INSTRUCTION (ENGLISH, FRENCH, GERMAN, ITALIAN) (XR-U882)

****

HARDWARE LIST

Ref. No.	Part No.	Description	Remark
# 1	7-627-553-18	SCREW, PRECISION +P 2X2	
# 2	7-627-553-28	SCREW, PRECISION +P 2X2.5	
# 3	7-627-554-28	SCREW, PRECISION +P 2X5 TYPE1	
# 4	7-627-556-78	SCREW, PRECISION +P 2.6X6 TYPE1	
# 5	7-621-770-87	SCREW +PTT 2.6X5 (S)	
# 6	7-621-773-86	SCREW +PTT 2.6X4 (S)	
# 7	7-685-103-19	SCREW +P 2X5 TYPE2 NON-SLIT	
# 8	7-685-205-19	SCREW +KTP 2X8 TYPE2 NON-SLIT	
# 9	7-627-852-38	SCREW, PRECISION +P1.7X1.8 TYPE3	
#10	7-627-554-07	SCREW, PRECISION +P2X2.2	
#11	7-628-253-00	SCREW +PS 2X4	
#12	7-621-255-65	SCREW +P 2X10	
#13	7-627-850-18	SCREW, PRECISION +P 1.4X2.5	
#14	7-627-850-67	SCREW, PRECISION +P 1.4X4	
#15	7-624-104-04	STOP RING 2.0, TYPE -E	

MOUNTING HARDWARE



Ref. No.	Part No.	Description	Remark
501	3-323-219-01	FRAME, FITTING	
502	3-370-129-01	CASE	
503	3-367-591-01	SPRING, FITTING	
504	X-3320-524-1	SCREW ASSY (A)	
505	3-323-217-01	HOLDER, BUSHING	
506	3-310-655-01	SUPPORT (ND), FITTING	
507	3-323-210-01	ADJUSTOR, STUD BOLT	
508	3-349-410-01	BUSHING	
509	3-323-209-01	BOLT (4-5), STUD	

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